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From: Commanding Officer, U. S. Naval Ammunition Depot, Crane, Indiana
To: National Aeronautics and Space Administration, Goddard Space
Flight Center, Electrochemical Power Sources Section (716.2),
Space Power Technology Branch, Greenbelt, Maryland 20771

Subj: Monthly Progress Report on National Aeronautics and Space
Administration Space Cell Test Program; submission of

Encl: (1) Monthly Progress Report as of 30 April 1966 (3 copies)

1. The progress report for National Aeronautics and Space Administration
purchase order W11,252B on the space cell test program is submitted as
enclosure (1).

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By direction

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MONTHLY PROGRESS REPORT THROUGH 30 APRIL 1966

LIFE CYCLE TESTS

1. Status of Cycling Program: The cycling program has included cells from the following manufacturers: General Electric Company (G.E.), Gould-National Batteries, Inc. (Gould), Sonotone Corporation (Sonotone), Yardney Electric Corporation (Yardney), Gulton Industries, Inc. (Gulton) and Delco-Remy (Delco).

TOTAL NUMBER OF PACKS IN PROGRAM: 167

	Total Number of Packs			Cells Failed	
	Cycled To Date	Cycling	Failed	Since Last Report	Total To Date
NICKEL CADMIUM (10-cell packs)					
G.E. 3.0 a.h.	12	5	7	0	50
Gould 3.5 a.h.	12	4	8	0	60
Sonotone 5.0 a.h.	12	6	6	1	47
Gulton 6.0 a.h.	12	2	10	1	67
TOTAL	48	17	31	2	224
NICKEL CADMIUM (5-cell packs)					
Sonotone 3.0 a.h.	6	6	0	0	-
Sonotone 5.0 a.h. STABISTOR	8	3	5	6	18
G.E. 5.0 a.h. NIMBUS	6	6	0	0	0
G.E. 12 a.h.	13	6	7	0	23
G.E. 12 a.h. 3rd Electrode	4	2	2	0	2
Gulton 1.25 a.h.	4	4	0	0	0
Gulton 3.6 a.h. COULOMETER	1	1	0	1	1
Gulton 4.0 a.h.	6	6	0	0	4
Gulton 5.0 a.h. NIMBUS	6	6	0	1	3
Gulton 5.6 a.h.	6	5	1	1	3
Gulton 6.0 a.h.	1	0	1	0	3
Gulton 6.0 HSI	3	2	1	0	4
Gulton 6.0 a.h. 3rd Electrode	6	5	1	2	6
Gulton 12 a.h.	6	4	2	0	9
Gulton 20 a.h.	12	3	9	1	34
Gulton 50 a.h.	2	0	2	0	6
Gould 20 a.h.	12	4	8	0	27
TOTAL	102	63	39	12	144
SILVER CADMIUM (10-cell packs)					
Yardney 12 a.h.	5	3	2	0	16
TOTAL	5	3	2	0	16
SILVER CADMIUM (5-cell packs)					
Yardney 5.0 a.h.	6	3	3	0	6
TOTAL	6	3	3	0	6

* All failure analysis results are cumulative. Total pack failures are shown on pages 8 through 39; partial pack failures on pages 40 through 53.

Enclosure (1)

	Total Number of Packs			Cells Failed*	
	Cycled	Cycling	Failed	Since Last Report	Total To Date
SUNAMP BENC (10-cell packs)					
Yarling 10 a.h.	1	0	1	0	6
1000 10 a.h.	1	0	1	0	5
TOTAL	2	0	2	0	11
SUNAMP BENC (10-cell packs)					
Yarling 10 a.h.	3	0	3	0	10
1000 10 a.h.	1	0	1	0	2
TOTAL	4	0	4	0	12

* All failure analysis results are cumulative. Total pack failures are shown on pages 8 through 39; partial pack failures on pages 40 through 41.

4. Test Parameters:

a. General Cycling Program:

(1) Ambient Temperature:

(a) 0° C.

(b) 25° C.

(c) 40° C.

(2) Voltage limits per pack on charge:

(a) 1.55 ± 0.03 volts per cell at 0° C.

(b) 1.49 ± 0.03 volts per cell at 25° C.

(c) 1.45 ± 0.03 volts per cell at 40° C.

(3) Depth of Discharge:

(a) 90-minute and 3-hour orbits:

1. 15 percent and 25 percent at 0° C.

2. 25 percent and 40 percent at 25° C.

3. 15 percent and 25 percent at 40° C.

(b) 24-hour orbits:

1. 50 percent at 25° C and 40° C.

(4) Orbit Times:

(a) 90 minutes--30-minute discharge and 60-minute charge.

(b) 3 hours--30-minute discharge and 150-minute charge.

(c) 24 hours--1-hour discharge and 23-hour charge.

b. Nimbus Packs:

(1) Ambient Temperature:

(a) 0° C.

(b) 25° C.

(c) 40° C.

(2) Voltage limit per pack on charge: 1.49 ± 0.03 volts per cell at each temperature.

(3) Depth of Discharge:

(a) 15 percent and 25 percent at 0° C.

(b) 25 percent and 40 percent at 25° C.

(c) 15 percent and 25 percent at 40° C.

(4) Orbit Time: 90-minutes--30-minute discharge and 60-minute charge.

c. Silver-Cadmium Packs:

(1) Ambient Temperatures:

(a) 90-minute orbit:

(1) -20° C.

(2) 0° C.

(3) 25° C.

(b) 24-hour orbit:

(1) 0° C.

(2) 25° C.

(3) 40° C.

(2) Voltage limits per pack on charge:

(a) 90-minute orbit:

(1) 1.60 ± 0.03 volts per cell at -20° C.

(2) 1.58 ± 0.03 volts per cell at 0° C.

(3) 1.55 ± 0.03 volts per cell at 25° C.

(b) 24-hour orbits: 1.50 ± 0.03 volts per cell at 0° C., 25° C., and 40° C.

(3) Depth of Discharge:

(a) 90-minute orbit: 25 percent at all temperatures.

(b) 24-hour orbit:

(1) 20 percent and 50 percent at 0° C.

(2) 20 percent at 25° C.

(3) 20 percent and 50 percent at 40° C.

(4) Orbit Time:

(a) 90-minute--30-minute discharge and 60-minute charge.

(b) 24-hours--1-hour discharge and 23-hour charge.

d. Silver-Zinc Packs:

(1) Ambient Temperature: 25° C.

(2) Voltage limit per pack on charge: 1.97 ± 0.03 volts per cell at 25° C.

(3) Depth of Discharge:

(a) 3-hour orbit: 40 percent at 25° C.

(b) 24-hour orbit: 25 percent and 40 percent at 25° C.

(4) Orbit Times:

(a) 3 hours--30-minute discharge and 150-minute charge.

(b) 24 hours--1-hour discharge and 23-hour charge.

e. Third Electrode Packs (Gulton):

(1) Ambient Temperatures:

- (a) 0° C.
- (b) 25° C.
- (c) 40° C.

(2) Voltage limits per pack on charge: None. Limit is controlled by the third electrode voltage:

- (a) 150 millivolts at 0° C.
- (b) 300 millivolts at 25° C.
- (c) 300 millivolts at 40° C.

(3) Depth of Discharge:

- (a) 25 percent and 40 percent at 0° C.
- (b) 25 percent and 40 percent at 25° C.
- (c) 15 percent and 25 percent at 40° C.

(4) Orbit Time: 90 minutes--30-minute discharge and 60-minute charge.

f. Third Electrode Packs (General Electric):

(1) Ambient Temperatures:

- (a) 0° C.
- (b) 25° C.
- (c) 40° C.

(2) Voltage limit per pack on charge: None. Limit is controlled by the third electrode voltage; 400 millivolts at all temperatures.

(3) Depth of Discharge:

- (a) 25 percent and 40 percent at 0° C.
- (b) 25 percent and 40 percent at 25° C.
- (c) 15 percent and 25 percent at 40° C.

(4) Orbit Time: 90 minutes--30-minute discharge and 60-minute charge.

g. Stabistor Packs:

(1) Ambient Temperatures:

(a) -20° C.

(b) 0° C.

(c) 25° C.

(d) 40° C.

(2) Voltage limits per pack on charge: None. Stabistor controls cell voltage.

(3) Depth of discharge:

(a) 25 percent and 40 percent at -20° C.

(b) 25 percent and 40 percent at 0° C.

(c) 25 percent and 40 percent at 25° C.

(d) 15 percent and 25 percent at 40° C.

(4) Orbit Time: 90 minutes--30-minute discharge and 60-minute charge.

h. Coulometer Packs:

(1) Ambient Temperature: 25° C.

(2) Voltage limit per pack on charge: None. Coulometer controls cell voltage.

(3) Depth of Discharge:

(a) 30 percent for 5 cells (Sonotone 5 a.h.)--coulometer built by Goddard Space Flight Center.

(b) 40 percent for 10 cells (Gulton 3.6 a.h.)--coulometer built by General Electric.

(4) Orbit Time: 90 minutes--30-minute discharge and 60-minute charge.

i. Sherfey Cycling Packs:

(1) Ambient Temperature: 25° C.

(2) Voltage limit per pack on charge: None. Pack cycled in the partially discharged state.

- (3) Depth of Discharge: 40 percent at 25° C.
- (4) Orbit Time: 90 minutes--30-minute discharge and 60-minute charge.
- (5) Cell Type: Gulton 3.6 a.h.

Two Step Charge Regulator:2

- (1) Ambient Temperature: 25° C.
- (2) Voltage limit per pack on charge:
 - (a) Upper Voltage Limit: 1.97 ± 0.03 volts per cell.
 - (b) Low Current Limit: 0.35 amps.
 - (c) Overcharge Voltage Limit: 1.87 ± 0.03 volts per cell.
- (3) Depth of Discharge: 40 percent at 25° C.
- (4) Orbit Time: 24-hour--1-hour discharge and 23-hour charge.
- (5) Cell Type: Delco-Remy 25 a.h.

1 This type of cycling starts with the cells in a completely discharged condition. Each cycle consists of a charge of 60 percent of the cell's rated capacity followed by a discharge of 40 percent of the cell's rated capacity. Upon completion of each fifth cycle, the cells are discharged through a resistor for 90 minutes to return the cells to the completely discharged condition for the start of the next sequence of five cycles. In this manner, the cells operate below the 100 percent charged state much of the time thereby preventing overcharging and buildup of excessive gas pressure.

2 When silver-cadmium and silver-zinc cells are put on a long charge period with only a voltage limit, the cells begin to unbalance when the pack goes into overcharge. A new method of charging cells of these types was developed at Goddard Space Flight Center. The cell pack is charged until it reaches the pack upper voltage limit. At this time, the charge current is reduced to maintain this voltage limit. When the charge current decreases to 350 milliamperes, the on-charge voltage limit is then reduced to the lower pack voltage limit which is equal to the open circuit voltage of the cell pack. In this method, the pack receives no more charge until there is a sufficient drop in the pack voltage to reset the pack voltage limit to the upper value. This method prevents the cells from becoming unbalanced during long charge periods.

3. Data:

a. Under normal operation, complete data is scheduled to be recorded every 32 cycles on the 90-minute and 3-hour packs. On the 24-hour packs, complete data is taken every eight cycles.

b. The attached data sheets give end of discharge and end of charge voltage readings for each cell on each cycle recorded.

4. Capacity Tests:

a. Before cycling, each pack was given a capacity test at its respective cycling temperature. This check consisted of a c/10 charge for 16 hours followed by a c/2 discharge to 1.0 volt per cell average. After each 88 days of cycling, each pack was discharged immediately after the end of the regular cycle charge period, at the c/2 rate to 1.0 volt per cell average. The pack was then recharged at the c/10 rate for 16 hours and discharged at the c/2 rate to 1.0 volt per cell average. The pack was then recharged at the c/10 rate for 48 hours, voltage limited to the cycle limits. Data of capacity tests is tabulated on pages 53 through 61.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIO (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>General Electric 3.0 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
15	25%	1.5	25°	432	7	8065	Low Volt Disch, Low Volt Chg, Blistering on Bottom Edge of Pos Plate, Migration of Neg Plate Material, Separator Completely Deteriorated.
			25°	414	8	8254	Low Volt Disch, Low Volt Chg, Blistering on Bottom Edge of Pos Plate, Migration of Neg Plate Material, Separator Completely Deteriorated.
			25°	479	5	8714	Low Volt Disch, Normal Volt Chg, Deposit on Terminal, Migration of Active Material, Blistering on Edge of Pos Plate, Separator Deteriorated.
			25°	267	10	10123	Low Volt Disch, Normal Volt Chg, Migration of Neg Plate Material Through Separator, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Deteriorated.
			25°	485	4	10382	Low Volt Disch, Low Volt Chg, Migration of Neg Plate Material Through Separator, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Deteriorated.
			25°	447	9	10382	Low Volt Disch, Low Volt Chg, Migration of Neg Plate Material Through Separator, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Deteriorated.
16	40%	1.5	25°	427	7	3985	Low Volt Disch, Normal Volt Chg, Pos Tab Broken and Touching Case, Burned Tape on Tab Caused by Overheating From Poor Tab Weld
			25°	58	6	4473	Low Volt Disch, Normal Volt Chg, Short on One Edge of Plates, Neg Plate Material Penetrated Separator.
			25°	361	1	4741	Low Volt Disch, Normal Volt Chg, Shorted, Separator Deteriorated, Neg Plate Material Penetrated Separator.
			25°	522	5	4917	Low Volt Disch, Low Volt Chg, Separator Impregnated with Neg Plate Material, Separator Deteriorated.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>General Electric 3.0 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
16	40%	1.5	25°	456	10	4917	Low Volt Disch, Low Volt Chg, Separator Impregnated with Neg Plate Material, Separator Deteriorated.
			25°	719	4	5013	Low Volt Disch, Low Volt Chg, Separator Impregnated with Neg Plate Material, Separator Deteriorated, Several Small Burned Areas on Separator.
39	15%	1.5	50°	541	2	779	Low Volt Disch, High Volt Chg, Leaked, Shorted at Top of Core, Separator Too Short, Pos Tab Burned.
			40°	540	6	2083	Low Volt Disch, High Volt Chg, Leaked, Shorted at Top of Core, Separator Too Short, Pos Tab Burned.
			40°	549	7	2523	Low Volt Disch, High Volt Chg, Pos Tab Burned.
			40°	527	1	7213	Low Volt Disch, Normal Volt Chg, Deposit Around Pos Terminal, Pos Tab Burned, Migration of Neg Plate Material, Separator Deteriorated.
			40°	534	5	8109	Low Volt Disch, Normal Volt Chg, Leaked, Lost 3.5 gm, Pos Tab Burned, Migration of Active Material, Separator Deteriorated.
			40°	550	8	8109	Low Volt Disch, Normal Volt Chg, Pinpoint Penetration, Separator Deteriorated.
40	25%	1.5	40°	464	3	2073	Low Volt Disch, High Volt Chg, Shorted at Top of Core, Separator Too Short, Pos Tab Burned.
			40°	3131	8	2182	Low Volt Disch, Normal Volt Chg, Leaked, Loose Plate Material on Separator.
			40°	47	7	2182	Low Volt Disch, High Volt Chg, Shorted at Top of Core, Separator Too Short, Pos Tab Burned and Broken.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIO. (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>General Electric 3.0 Ampere-Hour</u>
							FAILURE ANALYSIS <u>Nickel-Cadmium</u>
40	25%	1.5	40°	49	5	2446	Low Volt Disch, High Volt Chg, Pos Weld to Terminal Stud Burned, Poor Weld.
			40°	45	10	2461	Low Volt Disch, High Volt Chg, Loose Plate Material on Separator, Short at Outside End of Pos Plate.
			40°	466	2	2509	Low Volt Disch, High Volt Chg, Leaked, Pos Tab Burned and Shorted to Neg Tab.
			40°	441	6	2509	Low Volt Disch, High Volt Chg, Leaked, Shorted at Top of Core, Separator Too Short, Pos Tab Burned.
43	15%	3.0	40°	416	4	1182	Low Volt Disch, Low Volt Chg, Shorted at Top of Core, Separator Too Short, Pos Tab Burned.
			40°	499	3	1515	Low Volt Disch, High Volt Chg, Shorted at Top of Core, Separator Too Short, Pos Tab Burned and Broken.
			40°	412	6	1911	Showed Open Circuit at Start of Cycle, Pos Tab Broken, Burned Tape on Tab Caused by Overheating From Poor Tab Weld.
			40°	426	9	2298	Showed Open at Start of Cycle, Pos Tab Corroded, Pos Tab Broken, Top of Separator Burned, Separator Impregnated with Neg Plate Material, Separator Deteriorated.
			40°	436	7	2515	Showed Open at Start of Cycle, Pos Tab Corroded, Pos Tab Broken, Poor Roll, Uneven Wind at End of Roll, Shorts at Top of Roll, Separator Deteriorated.
			40°	435	10	2656	Showed Open at Start of Cycle, Pos Tab Corroded, Pos Tab Broken, Separator Impregnated with Neg Plate Material, Separator Deteriorated.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIC (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>General Electric 3.0 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
44	25%	3.0	40°	222	6	1672	Showed Open Circuit at Start of Cycle, Pos Tab Broken, Burned Tape on Tab Caused By Overheating From Poor Tab Weld.
			40°	366	8	3848	Low Volt Disch, High Volt Chg, Pinpoint Penetration, Separator Deteriorated, Blistering on Bottom Edge of Pos Plate.
			40°	459	1	3854	Shorted on Cycling, Deposit on Pos Terminal, Pinpoint Penetration, Separator Deteriorated.
			40°	77	3	3854	Low Volt Disch, Normal Volt Chg, Migration of Active Material, Separator Deteriorated.
			40°	3120	2	4487	Low Volt Disch, High Volt Chg, Deposit on Pos Terminal, Loose Active Pos Plate Material, Migration of Neg Plate Material Through Separator, Hot Spots Around Pinpoint Penetrations, Blistering on Pos Plates, Separator Deteriorated.
			40°	296	10	4487	Low Volt Disch, Low Volt Chg, Deposit on Pos Terminal, Migration of Neg Plate Material Through Separator, Hot Spots Around Pinpoint Penetrations, Blistering on Pos Plates, Separator Deterioration.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gould 3.5 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
3	25%	1.5	25°	73	5	2785	Low Volt Disch, High Volt Chg, Short Near Center of Core, Piece of Pos Plate Material Between Plates Causing Short Through Separator.
			25°	54	2	3090	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.7 gm, Weak Weld on Neg Tab to Plate.
			25°	165	9	4081	Low Volt Disch, Normal Volt Chg, Leaked, Lost 1.7 gm, Deposit on Glass Seal, Short Through Separator, Short at Pos Tab Near Center of Core, Neg Tab Weld to Plate Weak.
			25°	93	6	4289	Low Volt Disch, Normal Volt Chg, Leaked Around Glass Seal, Lost 2.6 gm, Separator Deteriorated, Neg Plate Material Penetrated Separator.
			25°	97	7	4401	Low Volt Disch, Normal Volt Chg, Leaked Around Glass Seal, Lost 2.5 gm, Separator Deteriorated, Neg Plate Material Penetrated Separator.
			25°	77	4	4751	Low Volt Disch, Normal Volt Chg, Separator Deteriorated, Separator Impregnated with Neg Plate Material, Blistering on Pos Plates
			25°	188	10	4751	Low Volt Disch, Normal Volt Chg, Leaked, Lost 2.1 gm, Neg Plate Material on Separator.
4	40%	1.5	25°	81	7	1609	Low Volt Disch, Normal Volt Chg, Leaked, Lost 3.2 gm, High Pres Bulge Top.
			25°	90	8	1827	Low Volt Disch, Low Volt Chg, Leaked, Lost 2.7 gm, High Pres Bulge Top.
			25°	2	1	2110	Low Volt Disch, Low Volt Chg, Separator Deteriorated at Center of Core, Under Pressure When Opened.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PER (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gould 3.5 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
4	40%	1.5	25°	43	6	2954	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.3 gm, Plate Material on Separator.
			25°	27	3	3029	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Separator Deteriorated.
			25°	198	10	3164	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.6 gm, Separator Deteriorated, Pos Plate Material Between Plates.
7	25%	3.0	25°	49	2	3007	Low Volt Disch, Normal Volt Chg, Leaked Around Glass Seal, Lost 2.7 gm, Neg Plate Material Migrated Through Separator, Separator Deteriorated, One Weak Weld Pos Tab to Plate.
			25°	37	1	3130	Low Volt Disch, Normal Volt Chg, Leaked, Lost 1.1 gm, Glass Seal Broken, Separator Very Dry, Neg Plate Material Migration, Pinpoint Penetration, Loose Neg Plate Material on Separator, Separator Deteriorated, All Tab Welds to Plate Weak.
			25°	109	6	3483	Low Volt Disch, Low Volt Chg, Leaked, Lost 2.0 gm, Deposit on Glass Seal, Separator Deteriorated, Pinpoint Penetration, Neg Plate Material on Separator, Weak Weld on One Tab to Pos Plate Weld.
			25°	104	5	3736	Shorted on Cycling, Deposit on Glass Seal, Leaked, Lost 1.1 gm, Weak Weld Pos Tab to Plate, Neg Plate Material on Separator, Pinpoint Penetration, Separator Deteriorated.
			25°	131	7	3884	Low Volt Disch, Normal Volt Chg, Deposit Around Glass Seal, Leaked, Lost 1.7 gm, Neg Plate Material Loose, Pinpoint Penetration, Separator Deteriorated.
			25°	62	3	4173	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Leaked, Lost 1.4 gm, One Weak Weld on Pos Tab to Plate, Pinpoint Penetration, Separator Deteriorated.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERI (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gould 3.5 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
8	40%	3.0	25°	68	6	1346	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.5 gm, Plate Material on Separator.
			25°	112	8	1704	Low Volt Disch, Normal Volt Chg, Leaked, Lost 2.0 gm, Pos Tab Weld to Bottom of Can Weak, Pos Tab Weld to Plate Weak.
			25°	39	1	1985	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Separator Deteriorated, Neg Plate Material on Separator.
			25°	170	10	1985	Low Volt Disch, Normal Volt Chg, Leaked, Lost 1.8 gm, Pos and Neg Tab Weld Weak to Plates Near Center of Core, Separator Deteriorated at Center of Core.
			25°	78	7	2138	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 1.4 gm, Pos Tab Weld to Case Weak, Separator Deteriorated, Neg Plate Material Penetrated Separator.
			25°	41	2	2494	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 1. gm, Separator Deteriorated, Neg Plate Material Impregnated Separator, One Bad Weld Neg Tab to Plate.
			25°	130	9	2494	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 2. gm, Separator Deteriorated, Pos and Neg Plate Material Impregnated Separator.
27	15%	1.5	40°	13	3	2901	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.5 gm, Separator Deteriorated, Pos Plate Material on Separator.
			40°	195	8	2901	Low Volt Disch, Normal Volt Chg, Leaked, Lost 3.6 gm, Short Through Separator, Separator Burned at Center of Core, Pos Plate Material on Separator.
			40°	103	7	2998	Low Volt Disch, Normal Volt Chg, High Pres, Short Through Separator, Pieces of Pos Plate Material Between Plates.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gould 3.5 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
27	15%	1.5	40°	200	10	3270	Low Volt Disch, Normal Volt Chg, Leaked, Lost 2.5 gm, Short Through Separator, Separator Deteriorated at Center of Core, Pos Tab Weld to Case Weak.
			40°	197	9	4102	Low Volt Disch, High Volt Chg, Leaked Around Glass Seal, Lost 1.4 gm, Short at Pos Tab, Separator Deteriorated, Neg Plate Material Penetrated Separator.
			40°	11	2	4485	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Separator Deteriorated, Separator Impregnated with Neg Plate Material.
28	25%	1.5	50°	122	2	408	Low Volt Disch, Normal Volt Chg, Leaked, Lost 1.8 gm, Weak Bottom Weld Suspicious Spot but not Definite.
			40°	157	7	484	Low Volt Disch, Normal Volt Chg, Leaked, Lost 2.0 gm, High Pres. Bulge.
			40°	158	8	484	Low Volt Disch, Normal Volt Chg, Leaked, Lost 1.9 gm, High Pres Bulge Top.
			40°	141	5	860	Low Volt Disch, High Volt Chg, Leaked, Lost 3.5 gm.
			40°	168	10	1293	Low Volt Disch, High Volt Chg, Weak Weld to Bottom of Case
			40°	121	1	1811	Low Volt Disch, Low Volt Chg, Short at Outside End of Plates, Grid Wire Penetrated Separator.
			40°	133	3	1811	Low Volt Disch, High Volt Chg, Weak Weld on Pos Tab to Case.
			40°	140	4	1811	Low Volt Disch, Low Volt Chg, Short Around Pos Tab, Blistering on Pos Plate, Active Neg Plate Material on Separator.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gould 3.5 Ampere-Hour</u> FAILURE ANALYSIS <u>Nickel-Cadmium</u>
28	25%	1.5	40°	155	6	1811	Low Volt Disch, Low Volt Chg, Short Through Separator, Weak Weld to Bottom of Case.
			40°	163	9	1811	Low Volt Disch, Low Volt Chg, Short Through Separator, Weak Weld to Bottom of Case, Deposit on Glass Seal.
31	15%	3.0	40°	R166	9	1500	Low Volt Disch, Low Volt Chg, Leaked, Lost 7.1 gm, Separator Deteriorated.
			40°	R179	10	1500	Low Volt Disch, Low Volt Chg, Leaked, Lost 1.5 gm, Short Through Separator, Separator Deteriorated, One Weak Tab.
			40°	R92	2	1696	Low Volt Disch, High Volt Chg, Pieces of Plate Material Shorted Through Separator, Separator Deteriorated.
			40°	126	3	2411	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 2.1 gm, Short Through Separator by Piece of Pos Plate Material Between Plates, Separator Deteriorated, Neg Plate Material Impregnated Separator, Tab to Plate Weld Poor.
			40°	R162	8	2477	Low Volt Disch, High Volt Chg, Leaked Around Glass Seal, Lost 2.4 gm, Separator Deteriorated, Neg Plate Material Impregnated Separator, Pinpoint Penetration, Poor Weld Pos Tab to Case.
			40°	72	1	2517	Low Volt Disch, Low Volt Chg, Leaked Around Glass Seal, Lost 1.8 gm, Short Between Plates, Extra Piece of Pos Plate Between Plates Separator Deteriorated, Pos Tabs to Plate Weld Both Weak.
			40°	143	6	2517	Low Volt Disch, Low Volt Chg, Short Through Separator at Start of Core, Extra Piece of Pos Plate Material, Separator Impregnated with Neg Plate Material, Separator Deteriorated, Neg Tab Weld to Pigtail Weak, One Tab to Pos Plate Weld Weak, Still Under Pressure When Opened.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERI (HOURS)	TEST TEMPERATUR	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gould 3.5 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
32	25%	3.0	40°	125	6	138	Low Volt Disch, Normal Volt Chg, Bottom Weld Weak, Greenish Corrosion Inside at Neg Lead.
			40°	65	3	495	Low Volt Disch, Normal Volt Chg, Leaked, Lost 1.5 gm, Bad Glass Seal Around Neg Terminal.
			40°	1	1	800	Low Volt Disch, Normal Volt Chg, Leaked, Lost 3.2 gm, Shorts Near Center of Core.
			40°	67	4	875	Low Volt Disch, Low Volt Chg, Leaked, Lost 2.2 gm, Short Around Tabs, Pos Tab Weld Weak to Case.
			40°	132	7	875	Failed During Shut Down to Move to Another Chamber, Leaked, Lost 4.4 gm, High Pres. Neg Tabs Pushed Out of Cell, Short at Center and Outside Edge of Core.
			40°	149	9	974	Low Volt Disch, High Volt Chg, Leaked, Lost 1.1 gm, Piece of Pos Plate Material Shorted Through Separator, Weak Welds to Case and Plates.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERI (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Sonotone 5.0 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
2	40%	1.5	25°	811	10	3155	Shorted on Cycling, Leaked Around Seal, High Pressure Bulge on Bottom, Insulators Brittle, Exposed Grid Wires at Center of Core Penetrated Separator Causing Large Burned Area at Short, Pos and Neg Tab Weld Poor.
			25°	3628	5	3992	Low Volt Disch, Normal Volt Chg, Leaked Around Seal, High Pres Bulge on Bottom, Hole in Separator Exposing Pos and Neg Plates, Neg Plate Material Penetrated Separator.
			25°	3613	2	4411	Low Volt Disch, Low Volt Chg, Two Pieces of Neg Plate Material Wore Hole in Separator at Scoring Mark, Burned Through Plates, Neg Tab Welds Poor, Separator Beginning to Deteriorate.
			25°	3630	6	5262	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Pos and Neg Plate Material on Separator, Separator Deteriorated, Neg Tab to Plate Welds Weak, Burn Marks on Separator at Tabs, High Pressure Bulge.
			25°	3631	7	5262	Low Volt Disch, Low Volt Chg, Uncoined Plate Edges Pierced Separator Causing Partial Shorts, Burn Marks Around Tab Areas, Weak Weld on All Tab to Plate Welds, Deep Pressure Points Caused by Scoring, Separator Torn at Start of Core Exposing Pos and Neg Plate, Separator Deteriorated, Neg Plate Material on Separator.
			25°	3611	1	6671	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, High Pressure Bulge, Excess Scoring, Migration of Pos and Neg Plate Material, Separator Completely Deteriorated.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERI (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Sonotone 5.0 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
25	15%	1.5	40°	4852	5	6348	Low Volt Disch, High Volt Chg, Separator Deteriorated, Large Burned Area at Center of Core, Pinpoint Penetration, Deep Scoring Caused Hole in Separator, Partial Shorts Around Edge of Plates, Deep Pressure Points Caused by Scoring.
			40°	4364	4	7052	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, High Pressure Bulge, Short Caused by Excess Scoring, Migration of Pos and Neg Plate Material, Separator Completely Deteriorated.
			40°	4317	1	7758	Low Volt Disch, Low Volt Chg, Deposit on Glass Seal, Excess Scoring, Migration of Pos and Neg Plate Material, Separator Completely Deteriorated.
			40°	4350	3	9070	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Hole in Separator Adjacent to Corner of Outside Neg Plates, Grid Wire Penetrated Separator and Shorted to Pos Plate, Separator Completely Deteriorated.
			40°	6850	6	9220	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Hole Through Separator Near Edge of Plate Causing Short, Small Piece of Neg Plate Material Between Plates and Separator.
			40°	4347	2	9328	Low Volt Disch, Low Volt Chg, Deposit on Glass Seal, Neg Plate Material Migrated Through Separator, Separator Deteriorated, Weak Weld Tab to Neg Plate.
26	25%	1.5	40°	4323	1	2487	Grid Wire Penetrated Separator at Tabs.
			40°	6773	9	2902	Shorted on Cycling, Slight Burn Adjacent to Neg Tab, Separator Deteriorated, Neg Plate Material Penetrated Separator, Tab Welds Weak.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIO (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Sonotone 5.0 Ampere-Hour</u> FAILURE ANALYSIS Nickel-Cadmium
26	25%	1.5	40°	7224	6	2993	Low Volt Disch, Normal Volt Chg, High Pres Bulge, Deposit Around Seal, Neg Tab Weld Weak, Neg Plate Material Penetrated Separator.
			40°	7232	7	2993	Low Volt Disch, Normal Volt Chg, High Pres Bulge, Deposit Around Seal, Pos Tab Weld Weak, Plate Broken at Pos Tab, Deep Pressure Points From Scoring, Separator Completely Deteriorated.
			40°	4881	3	3344	Shorted on Cycling, Complete Short From Deep Scoring, Plate Shorted Through Outer Wrap.
			40°	4240	4	3625	Low Volt Disch, Low Volt Chg, Separator Deteriorated, Plate Material Penetrated Separator.
30	25%	3.0	40°	3657	7	855	Hole in Separator Allowing Pos Plate to Hit Case, Separator Damaged at Center of Cell Allowing Pos and Neg Plate to Short Together.
			40°	3643	4	3068	Low Volt Disch, Low Volt Chg, Separator Completely Deteriorated, Neg Tab to Plate Welds Weak, Burn Spots Around Tabs, Deep Scoring Caused Burn Spots on Separator.
			40°	809	9	3068	Low Volt Disch, Low Volt Chg, Deposit Around Glass Seal, Burn Spots Around Edge of Separator Caused By Uncoined Edge of Plates, Deep Scoring Caused Burn Spots on Separator, Burn Spots Around Tab Areas, Separator Deteriorated.
			40°	3658	8	3684	Low Volt Disch, Low Volt Chg, Deposit on Glass Seal, Leaked, Lost 1.3 gm, Short Caused by Excess Scoring, Migration of Pos and Neg Plate Material, Separator Completely Deteriorated.
			40°	3617	1	4141	Shorted During Cycling, Deposit on Glass Seal, Hole in Separator at Tab Weld Area Caused Short, Separator Completely Deteriorated.
			40°	7230	10	4141	Low Volt Disch, Low Volt Chg, Deposit on Glass Seal, Migration of Neg Plate Material, Separator Completely Deteriorated.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 6.0 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
13	25%	1.5	25°	2305	1	308	Low Volt Disch, High Volt Chg, Lost 12 gm, CO ₃ Top Ceramic, High Pres Bulge.
			25°	2355	10	502	Low Volt Disch, High Volt Chg, Lost 10 gm, High Pres Bulge.
			25°	3134	5	2969	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plates.
			25°	3211	7	3084	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plates.
			25°	2613	4	3598	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plate, Separator Deteriorated.
			25°	2324	2	4021	Low Volt Disch, Low Volt Chg, Ceramic Short, Separator Deteriorated, Separator Impregnated with Neg Plate Material, Blistering on Pos Plates, High Pres Bulge.
14	40%	1.5	25°	1623	4	262	Low Volt Disch, High Volt Chg, Lost 12 gm, High Pres Bulge.
			25°	1635	5	262	Voltage Fell Off During Charge, Went Flat in 3 Min. on Disch, Lost 6 gm, Concave Wall, High Pres Bulge, Ceramic Broken Inside Case, CO ₃ on Outside of Ceramic, Pos Terminal Loose.
			25°	2356	1	450	Low Volt Disch, High Volt Chg, Lost 12 gm, High Pres.
			25°	2387	2	1113	Low Volt Disch, High Volt Chg, Ceramic Short.
			25°	2391	3	1618	Low Volt Disch, Low Volt Chg, Ceramic Short.
			25°	3208	7	2086	Low Volt Disch, Normal Volt Chg, Ceramic Short.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PER (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 6.0 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
17	25%	3.0	25°	1862	5	721	Low Volt Disch, High Volt Chg, Ceramic Short.
			25°	1823	3	721	Low Volt Disch, High Volt Chg, High Pres Bulge, Burnt Spot on Neg Plate Near Bottom Second From End, Ceramic Short.
			25°	2348	10	1688	Low Volt Disch, Low Volt Chg, Ceramic Short.
			25°	1757	1	2375	Low Volt Disch, Low Volt Chg, Ceramic Short, Deposit Around Ceramic Seal, High Pres Bulge.
			25°	1598	2	2449	Low Volt Disch, Low Volt Chg, Pinpoint Penetration of Separator, Blistering on Pos Plate, High Pres Bulge.
			25°	2347	9	2885	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plates, High Pressure Bulge, Still Under Pressure When Opened.
18	40%	3.0	25°	1826	6	365	Low Volt Disch, Chg Volt Normal, Lost 3 gm, Concave Wall, Ceramic Short.
			25°	1615	3	608	Low Volt Disch, Normal Volt Chg, Deposit on Top of Pos Terminal, Lost 5.1 gm, High Pres Bulge.
			25°	1827	7	643	Low Volt Disch, High Volt Chg, High Pres Bulge, Ceramic Short.
			25°	2228	9	643	Low Volt Disch, High Volt Chg, Ceramic Short.
			25°	1562	5	1145	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plates.
			25°	1233	1	1550	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plate, Neg Plate Material on Separator.

CELL TYPE: Gulton 6.0 Ampere-Hour

FAILURE ANALYSIS Nickel-Cadmium

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIO (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	
41	15%	3.0	40°	1771	9	649	Low Volt Disch, High Volt Chg, Ceramic Short.
			40°	1801	6	1062	Low Volt Disch, Normal Volt Chg, Ceramic Short.
			40°	3135	2	1132	Low Volt Disch, Normal Volt Chg, Ceramic Short.
			40°	1852	7	1157	Low Volt Disch, Normal Volt Chg, Ceramic Short, Blistering on Pos Plates.
			40°	2221	8	1157	Low Volt Disch, Normal Volt Chg, Ceramic Short.
			40°	1632	3	1689	Low Volt Disch, Normal Volt Chg, Ceramic Short, Blistering on Pos Plates.
42	25%	3.0	50°	2309	8	96	Low Volt Disch, Normal Volt Chg, Ceramic Short.
			40°	2346	7	382	Low Volt Disch, Low Volt Chg, CO ₃ on Bottom of Case, Ceramic Short.
			40°	2306	9	416	Low Volt Disch, High Volt Chg, Ceramic Short.
			40°	918	1	484	Low Volt Disch, Low Volt Chg, High Pres Bulge, Deposit on Bottom of Case, Ceramic Short, Lost 3.1 gm.
			40°	2340	6	3619	Low Volt Disch, Normal Volt Chg, Deposit Around Ceramic Seal and Bottom Seam of Can, Leaked, Lost 8.2 gm, Pinpoint Penetration, Separator Deteriorated.
			40°	2334	4	4133	Low Volt Disch, Low Volt Chg, Deposit Around Cracked Pos Terminal Leaked, Lost 8.8 gm, Migration of Neg Plate Material, Blistering on Pos Plates, Separator Completely Deteriorated, Ceramic Short.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIC (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 6.0 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
61	15%	1.5	0°	1622	2	1	Volt Between 0.25 and 0.3 V Throughout Cycle, Side Concave, Burnt Case, End Neg Pushed Into Pos Tab. Cell Replaced in Pack Due to Early Failure.
			0°	1845	8	6	Lost 5 gm, Leak at Weld on Bottom, High Pres Bulge, Cell Replaced in Pack Due to Early Failure.
			0°	2397	5	2762	Low Volt Disch, Low Volt Chg, Ceramic Short.
			0°	1825	4	4094	Low Volt Disch, Low Volt Chg, Ceramic Short, Separator Impregnated with Neg Plate Material, Blistering on Pos Plates, High Pres Bulge.
			0°	2311	10	4285	Low Volt Disch, Low Volt Chg, Ceramic Short, Separator Impregnated with Neg Plate Material, Blistering on Pos Plates, High Pres Bulge.
			0°	2400	6	4413	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plates, High Pres Bulge.
			0°	1636	3	*9760	Low Volt Disch, Low Volt Chg, High Pres Bulge, Concave Sides, Leaked, Lost 2.7 gm, Rough Place on Pos Plate Shorted Through Separator, Migration of Neg Plate Material Through Separator, Blistering on Pos Plates, Separator Deteriorated, Ceramic Short.
			0°	1616	1	*10146	Low Volt Disch, High Volt Chg, Deposit on Pos Terminal, Concave Sides Causing Bus to Short Against Case, Pos Tab Burned, Migration of Neg Plate Material Through Separator, Separator Very Slightly Deteriorated, Leaked, Lost 6.0 gm.

* FAILED DURING THIS REPORTING PERIOD.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 6.0 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
66	25%	3.0	0°	1794	6	1045	Low Volt Disch, High Volt Chg, High Pres Bulge, Concave Side, Ceramic Broken, No Seal, Lost 5.1 gm, Pos Bus Against Case.
			0°	1843	8	1173	Low Volt Disch, Low Volt Chg, Wall Concave, Ceramic Short.
			0°	1781	5	1237	Low Volt Disch, High Volt Chg, High Pres Bulge, Deposit Around Pos Terminal, Ceramic Broken on Pos Terminal, Blisters on Pos Plate, Burnt Spot on Separator at Blisters, Lost 1.3 gm.
			0°	1634	3	1417	Low Volt Disch, Normal Volt Chg, Ceramic Short, High Pres Bulge, One Side Concave Other Convex, Pos Plates Blistered, Lost 2.3 gm
			0°	1823	7	2122	Low Volt Disch, Low Volt Chg, Leaked, Lost 7.8 gm, Separator Impregnated with Neg Plate Material, Blistering on Pos Plates, High Pres Bulge, One Side Concave.
				1591	4	4414	Low Volt Disch, Normal Volt Chg, Deposit on Pos Terminal, High Pressure Bulge, Concave Sides Shorting Against Pos Bus, Ceramic Short, Migration of Neg Plate Material, Pinpoint Penetration of Separator.
79	50%	24.0	25°	2982	1	149	Low Volt Disch, Normal Volt Chg, Deposit on Pos Terminal, Still Under Pressure When Opened, Ceramic Short, Very Light Migration, Blistering on Pos Plates, Separator Deteriorated.
			25°	2984	3	164	Low Volt Disch, Low Volt Chg, Still Under Pressure When Opened, Ceramic Short, Pinpoint Penetration, Blistering on Pos Plates, Separator Deteriorated.
			25°	2983	2	545	Low Volt Disch, Normal Volt Chg, Burned Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Deteriorated.
			25°	2985	4	545	Low Volt Disch, Normal Volt Chg, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Deterioration.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>General Electric 12.0 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
85	15%	1.5	40°	428	4	8888	Low Volt Disch, Low Volt Chg, High Pressure Bulge, Still Under Pressure When Opened, Migration of Neg Plate Material, Separator Completely Deteriorated.
			40°	448	3	8947	Low Volt Disch, Low Volt Chg, High Pressure Bulge, Still Under Pressure When Opened, Migration of Neg Plate Material, Separator Completely Deteriorated.
			40°	455	2	9710	Low Volt Disch, Normal Volt Chg, Still Under Pressure When Opened, Migration of Neg Plate Material, Separator Completely Deteriorated.
93	50%	24.0	40°	208	2	266	Low Volt Disch, Normal Volt Chg, Was Opened Up But Did Not Show Anything to be Wrong with Cell, Failure Due to Loss of Capacity.
			40°	204	1	349	Low Volt Disch, Normal Volt Chg, Deposit on Pos Terminal, Pin-point Penetration, Separator Deteriorated.
			40°	209	3	349	Low Volt Disch, Normal Volt Chg, Deposit on Pos and Neg Terminal Migration of Neg Plate Material, Separator Deteriorated.
			40°	210	4	349	Low Volt Disch, Normal Volt Chg, Deposit on Neg Terminal, Pin-point Penetration, Separator Deteriorated.
			40°	211	5	349	Low Volt Disch, Normal Volt Chg, Deposit on Neg Terminal, Migration of Neg Plate Material, Separator Deteriorated, Plate Not Packed Evenly.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIC (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>General Electric 12.0 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
96	40%	1.5	25°	445	3	3822	Low Volt Disch, Low Volt Chg, Separator Penetrated by Neg Plate Material, Pinpoint Shorts Through Separator.
			25°	446	2	4020	Low Volt Disch, Low Volt Chg, Separator Penetrated by Neg Plate Material, Pinpoint Shorts Through Separator.
			25°	442	4	4020	Low Volt Disch, Low Volt Chg, Separator Penetrated by Neg Plate Material, Pinpoint Shorts Through Separator.
	40%	3.0	25°	438	2	3894	Low Volt Disch, Low Volt Chg, Deposit on Pos and Neg Terminals, Pinpoint Penetration, Separator Deteriorated.
			25°	435	3	3946	Low Volt Disch, Normal Volt Chg, Still Under Pressure When Opened, Migration of Neg Plate Material, Blistering on Pos Plate, Separator Deteriorated.
			25°	434	4	5002	Low Volt Disch, Normal Volt Chg, Still Under Pressure When Opened, Migration of Neg Plate Material, Separator Completely Deteriorated.
99	25%	1.5	40°	429	3	3841	Shorted on Cycling, Separator Penetrated by Neg Plate Material, Pinpoint Shorts Through Separator, Leaked at Neg Terminal, Epoxy Lifted Up.
			40°	432	2	3841	Failed During Shut Down of Pack, Separator Deteriorated, Separator Impregnated with Neg Plate Material.
			40°	440	1	4853	Low Volt Disch, Low Volt Chg, Separator Deteriorated, Separator Impregnated with Neg Plate Material.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PER: (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>General Electric 12.0 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
100	25%	3.0	40°	427	3	4170	Shorted on Cycling, High Pressure Bulge, Still Under Pressure When Opened, Blistering on Pos Plates, Separator Completely Deteriorated.
			40°	431	2	4358	Shorted on Cycling, High Pressure Bulge, Still Under Pressure, Migration of Neg Plate Material, Separator Completely Deteriorated.
			40°	436	1	4424	Shorted on Cycling, Migration of Neg Plate Material Through Separator, Separator Completely Deteriorated.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERI (HOURS)	TEST TEMPERATUR	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 12 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
290	25%	1.5	40°	1460	4	3060	Low Volt Disch, Low Volt Chg, Pinpoint Penetration, Blistering on Pos Plates, Separator Completely Deteriorated Allowing Plates to Short Together.
			40°	1459	3	3318	Shorted on Cycling, Pinpoint Penetration, Blistering on Pos Plates, Separator Completely Deteriorated Allowing Plates to Short Together.
			40°	1461	5	5124	Low Volt Disch, Low Volt Chg, High Pressure Bulge, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Completely Deteriorated.
296	40%	1.5	25°	1447	4	5036	Low Volt Disch, Normal Volt Chg, Piece of Loose Neg Plate Material Between Plates, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Completely Deteriorated.
			25°	1443	2	5152	Shorted on Cycling, High Pressure Bulge, Blistering on Pos Plates Separator Completely Gone, Hottest Point Near Center of Pack, All Insulators Burned, Leaked, Lost 3.3 gm.
			25°	1445	3	5152	Low Volt Disch, Low Volt Chg, Deposit on Both Terminals, High Pressure Bulge, Migration of Neg Plate Material, Short Through Separator Near Center of Plate, Separator Completely Deteriorated.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 20 Ampere-Hour</u>
							FAILURE ANALYSIS <u>Nickel-Cadmium</u>
73	25%	1.5	25°	396	3	1776	Low Volt Disch, Normal Volt Chg, Concave Side, Neg Ceramic Seal Broken, Lost 23.7 gm.
			25°	387	1	6120	Low Volt Disch, Low Volt Chg, Lost 13.2 gm, Separator Completely Deteriorated, Neg Plate Material Migration, Pinpoint Penetration, Blistering on Pos Plates, High Pressure Bulge.
			25°	465	4	7763	Low Volt Disch, Low Volt Chg, Deposit on Pos Terminal, Sides Concave, Migration of Active Plate Material, Blistering on Pos Plates, Separator Completely Deteriorated, Ceramic Short.
74	25%	3.0	25°	458	4	1184	Low Volt Disch, Low Volt Chg, Leaked, Lost 14.2 gm, Blistering on Pos Plates.
			25°	419	3	1302	Low Volt Disch, Normal Volt Chg, Leaked, Lost 21.9 gm.
			25°	440	2	1754	Low Volt Disch, Normal Volt Chg, Leaked Around Both Terminals, Ceramic Broken on Neg Terminal, Lost 18.0 gm, Neg Plate Material Penetrated Separator, Sides Concaved, Shorting Case to Bus.
76	15%	1.5	40°	453	2	7697	Shorted on Cycling, Deposit on Neg Terminal, Ceramic Broken Around Neg Terminal, Extraneous Active Material Caused Short Between Plates, Separator Completely Deteriorated.
			40°	431	4	7698	Cell Shorted During Shut Down for Cell Removal, High Pressure Bulge, Still Under Pressure When Opened, Pinpoint Penetration, Causing Shorts, Separator Completely Deteriorated.
			40°	455	3	9348	Shorted During Cycling, High Pressure Bulge, Still Under Pressure When Opened, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Completely Deteriorated, Short on Upper Corner Near Neg Tab.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PER (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 20 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
87	40%	1.5	25°	468	1	163	Low Volt Disch, High Volt Chg, High Pres Bulge, Lost 8 gm.
			25°	388	2	208	Low Volt Disch, High Volt Chg, Lost 26.7 gm, Ceramic Short Around Pos Terminal.
			25°	394	3	627	Low Volt Disch, High Volt Chg, Lost 16.4 gm, High Pres Bulge, Deposit on Both Terminals, Ceramic Short Neg to Case.
			25°	454	4	627	Low Volt Disch, Low Volt Chg, Lost 21.6 gm, Deposit on Both Terminals, Sides Concave, Hit Bus on Both Sides.
			25°	386	5	627	Low Volt Disch, Low Volt Chg, Lost 18.1 gm, High Pres Bulge, Burnt Separator 5th or 6th Neg Plate Near Top, Ceramic Short.
88	40%	3.0	25°	422	2	151	Low Volt Disch, High Volt Chg, High Pres Bulge, Bottom Ceramic Leak, Lost 25 gm.
			25°	404	1	151	Low Volt Disch, High Volt Chg, High Pres Bulge, Bottom Ceramic Leak, Lost 25 gm.
			25°	466	3	358	Low Volt Disch, High Volt Chg, High Pres Bulge, Lost 16.4 gm.
			25°	429	5	358	Low Volt Disch, Low Volt Chg, Ceramic Short Around Pos Terminal.
90	25%	1.5	40°	452	4	2824	Low Volt Disch, Low Volt Chg, Short Through Separator at Top of Plates, High Pres Bulge on Sides, High Pres, Separator Deteriorated.
			40°	457	5	2824	Low Volt Disch, Normal Volt Chg, Short Through Separator, Blistering on Pos Plate, High Pres Bulge on Sides, High Pres.
			40°	378	3	4045	Normal Volt Disch, Went Dead on Chg During Cap Check, Ceramic Short, Separator Completely Deteriorated.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PER (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 20 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
91	25%	3.0	40°	395	4	2862	Shorted Out Following Capacity Check, Leaked, Lost 6.8 gm, Deposit on Both Terminals, Both Ceramic Seals Broken, Separator Completely Deteriorated, Neg Plate Material Migration, Separator Very Wet, Plastic Wrap Burned, Ceramic Short.
			40°	412	3	3385	Shorted on Cycling, High Pressure Bulge, Pos and Neg Plate Material on Separator, Separator Completely Deteriorated.
			40°	489	1	4480	Shorted During Cycling, Deposit on Both Terminals, Still Under Pressure When Opened, Concave Sides, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Completely Deteriorated.
			40°	447	2	4480	Shorted During Cycling, Deposit on Neg Terminal, High Pressure Bulge, Concave Sides, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Completely Deteriorated.
101	15%	1.5	0°	435	2	3111	Low Volt Disch, High Volt Chg, Leaked, Lost 24.6 gm, High Pres Bulge, Separator Very Dry.
			0°	407	5	3111	Low Volt Disch, High Volt Chg, Leaked, Lost 20.4 gm, Separator Very Dry.
			0°	438	4	3629	Low Volt Disch, High Volt Chg, Leaked, Lost 13.2 gm, High Pres Bulge, Sides Concave, Blistering on Pos Plates.
115	25%	1.5	0°	490	3	2107	Low Volt Disch, Normal Volt Chg, Walls Concave, Busses Shorted to Case, Lost 26.9 gm.
			0°	508	2	2203	High Pres Bulge, Blisters on Pos Plate, Busses Shorted to Case.
			0°	467	4	2291	Black Deposit on Outside on Neg Terminal, High Pres Bulge, Busse Shorted to Case, Blisters on Pos Plate, Burnt Spot on Separator.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERI (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gould 20 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
104	25%	1.5	25°	69	1	2672	Low Volt Disch, Low Volt Chg, Shorted at Bottom on Pos Plate, Pos Grid Wire Penetrated Separator, Short at Top Between Pos Grid and Neg Tab, High Pressure.
			25°	R36	5	2826	Low Volt Disch, Low Volt Chg, Short Between Plates, Grid Wire Penetrated Separator, Pos Plate Material Between Plates, High Pressure.
			25°	5	3	2980	Low Volt Disch, Low Volt Chg, Separator Completely Deteriorated, Short Between Plates, High Pressure.
112	15%	1.5	40°	17	1	5005	Low Volt Disch, Low Volt Chg, Short Between Plates, Short About One Inch From Bottom of Plates, Separator Completely Deteriorated High Pressure.
			40°	25	2	5005	Low Volt Disch, Low Volt Chg, Shorted Through Separator, Shorted on Bottom Corner of Plates, Separator Completely Deteriorated, High Pressure.
			40°	38	5	5213	Low Volt Disch, Low Volt Chg, Short at Top Corner of Plate Where Pos Tabs are Connected to Plates, Separator Deteriorated Allowing Plates to Come Together, Blistering on Pos Plates.
118	40%	1.5	25°	61	2	1747	Low Volt Disch, Low Volt Chg, Short at Bottom of Pos Plate, Grid Wires Penetrated Separator Where Tape Holds Plates Together, High Pressure.
			25°	R91	4	1963	Low Volt Disch, Low Volt Chg, Shorted at Bottom Corner of Pos Plates, Grid Wires Through Separator, Rough Grid Showing Through at Top and Bottom of Most Plates, High Pressure.
			25°	92	5	2237	Low Volt Disch, Low Volt Chg, Short Through Separator on Side of Plates, Pos Plate Material Penetrated Separator, High Pressure.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gould 20 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
119	40%	3.0	25°	73	5	222	Normal Volt Disch, Low Volt Chg, Short Near Bottom of 5th or 6th Pos, No Obvious Cause.
			25°	80	2	1793	Low Volt Disch, Normal Volt Chg, Neg Plate Material Penetrated Separator, High Pressure, Blistering on Pos Plate.
			25°	86	3	1793	Low Volt Disch, Normal Volt Chg, Neg Plate Material Penetrated Separator, High Pressure, Blistering on Pos Plate.
122	25%	3.0	40°	16	2	801	Low Volt Disch, Low Volt Chg, Blistering on Pos Plates, Separator Deteriorated, Plate Material on Both Sides of Separator, High Pressure.
			40°	58	3	801	Low Volt Disch, Low Volt Chg, Blistering on Pos Plates, Separator Deteriorated, Plate Material on Both Sides of Separator, High Pressure.
			40°	18	5	983	Low Volt Disch, Low Volt Chg, Plate Material Penetrated Separator, Pos Plates Blistered, High Pressure.
126	25%	1.5	40°	9	3	1273	Low Volt Disch, Low Volt Chg, Shorted at Bottom Corner of Neg Plate, Grid Wire Penetrated Separator, Several Other Plates Had Grid Wires Sticking Out, High Pressure.
			40°	R29	4	1509	Low Volt Disch, Low Volt Chg, Shorted at Bottom Corner of Pos Plate, Grid Wire Penetrated Separator, Blistering on Pos Plates Separator Deteriorated, High Pressure.
			40°	11	5	1569	Low Volt Disch, Low Volt Chg, Shorted on Side of Pos Plate, Grid Wire Penetrated Separator, High Pressure.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERI (HOURS)	TEST TEMPERATUR	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 50 Ampere-Hour</u> FAILURE ANALYSIS <u>Nickel-Cadmium</u>
95	25%	1.5	0°	109	3	2643	Shorted Out While Cycling, All Plates Shorted at Bottom Center, Separator Very Dry and Stiff From Heat, Blistering on Pos Plate.
			0°	107	5	2938	Shorted Out While Cycling, Short Between Plates at Center Near Bottom of Plates, Separator Dry, Small Amount of Neg Plate Material Migration on Separator.
			0°	115	1	3227	Low Volt Disch, High Volt Chg, Separator Impregnated with Neg Plate Material, Large Blisters on Pos Plate, One Neg Plate Stuck to Can.
123	15%	1.5	40°	119	2	1873	Low Volt Disch, Low Volt Chg, Separator Decomposed, Hot Spots Through Separator Shorted Out Several Plates, High Pres Bulge, Still Under Pressure When Opened.
			40°	118	3	1873	Went Dead During Shutdown, Separator Decomposed, Several Small Hot Spots on Each Plate, Outside Neg Plates Stuck to Case, High Pres Bulge, Deposit Around Ceramic Seal of Pos Terminal.
			40°	117	4	1873	Went Dead During Shutdown, Separator Decomposed, Neg Plate Stuck to Case, High Pres Bulge, Still Under Pressure When Opened..

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Delco 25 Ampere-Hour</u> FAILURE ANALYSIS Silver-Zinc
75	40%	24.0	25°			32	Cell Blew Up, Pack Returned to Manufacturer.
89	40%	24.0	25°			80	Returned to Manufacturer for Analysis.
288	40%	3.0	25°			120	Returned to Manufacturer for Analysis.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Delco 40 Ampere-Hour</u> FAILURE ANALYSIS Silver-Zinc
275	25%	24.0	25°			139	Returned to Manufacturer for Analysis.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Yardney 12 Ampere-Hour</u>
							FAILURE ANALYSIS <u>Silver-Cadmium</u>
33	50%	24.0	40°		3	58	Leaked, Dried Out.
			40°		2	126	Leaked, Dried Out.
			40°		1	152	Leaked, Dried Out.
			40°		8	197	Leaked, Dried Out.
			40°		4	210	Leaked, Dried Out.
			40°		10	210	Leaked, Dried Out.
57	50%	24.0	0°		1	162	Leaked, Electrolyte Shorted Out Cell.
			0°		2	162	Leaked, Electrolyte Shorted Out Cell.
			0°		10	162	Leaked, Electrolyte Shorted Out Cell.
			0°		3	166	Leaked, Electrolyte Shorted Out Cell.
			0°		4	166	Leaked, Electrolyte Shorted Out Cell.
			0°		5	166	Leaked, Electrolyte Shorted Out Cell.
			0°		6	166	Leaked, Electrolyte Shorted Out Cell.
			0°		7	166	Leaked, Electrolyte Shorted Out Cell.
			0°		8	166	Leaked, Electrolyte Shorted Out Cell.
			0°		9	166	Leaked, Electrolyte Shorted Out Cell.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIO (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>General Electric 3.0 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
20	40%	3.0	25°	421	5	3704	Low Volt Disch, Low Volt Chg, Blistering on Bottom and Top Edge of Pos Plate, Migration of Neg Plate Material, Separator Completely Deteriorated.
			25°	433	2	4485	Low Volt Disch, Low Volt Chg, Migration of Neg Plate Material Through Separator, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates, Separator Deteriorated, Burned Pos Tab.
			25°	711	6	4485	Low Volt Disch, Low Volt Chg, Migration of Neg Plate Material Through Separator, Hot Spots Around Pinpoint Penetrations, Blistering on Pos Plates, Separator Deteriorated, Deposit on Pos Terminal.
			25°	710	3	4889	Shorted on Cycling, Deposit on Pos Terminal, Migration of Neg Plate Material Through Separator, Hot Spots Around Pinpoint Penetrations, Blistering on Pos Plates, Separator Deteriorated..

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIO (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gould 3.5 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
52	25%	1.5	0°	116	8	7858	Low Volt Disch, Low Volt Chg, Still Under Pressure When Opened, Neg Plate Material on Separator, Excess Migration of Neg Plate Material, Separator Deteriorated.
			0°	194	10	8367	Low Volt Disch, Normal Volt Chg, Under High Pressure When Opened, Pinpoint Penetration, Migration of Active Material Around Tab Areas.
			0°	108	7	9724	Low Volt Disch, High Volt Chg, Loose Active Pos Plate Material, Migration of Neg Plate Material Through Separator, Separator Deteriorated.
			0°	118	9	9724	Low Volt Disch, Low Volt Chg, Loose Active Pos Plate Material, Migration of Neg Plate Material Through Separator, Separator Deteriorated.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIO (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Sonotone 5.0 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
1	25%	1.5	25°	4361	4	2995	Low Volt Disch, High Volt Chg, Inclusion on Surface of Outside Pos Plate Wore Hole Through Separator and Thin Outside Wrap, Separator Sticking to Neg Plate, Glass Seal Leaked.
			25°	4335	1	4423	Low Volt Disch, High Volt Chg, Neg Tabs Weak Weld to Plates, Separator Melted at Center of Core, Extreme Pressure Points on Separator From Scoring Causing High Resistance Shorts.
			25°	4878	6	7782	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Short Caused by Excess Scoring, Migration of Neg Plate Material, Separator Completely Deteriorated.
	25%	3.0	25°	4351	2	3771	Low Volt Disch, High Volt Chg, Deposit on Glass Seal, Excess Scoring, Migration of Neg Plate Material, Deep Pressure Points Resulting in Intermittant Shorts, Separator Deteriorated.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERI (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Sonotone 5.0 Ampere-Hour</u> FAILURE ANALYSIS <u>Nickel-Cadmium</u>
6	40%	3.0	25°	4324	8	1069	Low Volt Disch, Normal Volt Chg, Separator Impregnated With Active Material, Separator Sticking to Neg Plate.
			25°	6904	10	1136	Low Volt Disch, Low Volt Chg, Small Hole in Separator at Start of Coil, Pos Plate Edge Broken Allowing Grid Wire to Penetrate Separator.
			25°	3637	4	1161	Grid Wires of Pos Plate Penetrated Separator and Shorted to Neg Plate, Active Plate Material Penetrated Separator at Three Points, Bad Tab Welds.
			25°	6875	9	3798	Low Volt Disch, Normal Volt Chg, High Pressure Bulge, Excess Scoring, Migration of Pos and Neg Plate Material, Separator Completely Deteriorated.
			25°	6882	7	4608	Low Volt Disch, Normal Volt Chg, Excess Scoring, Shorts at Edge of Plates, Neg Tab Area, and at Scoring, Weak Weld Neg Plate to Tab, Separator Deteriorated.
29	15%	3.0	40°	3626	1	1418	Shorted on Cycling, Neg Tab Welds Poor, Active Plate Material Penetrated Separator at Scoring Marks.
			40°	810	7	4835	Low Volt Disch, Low Volt Chg, Deposit on Glass Seal, Burn Spots Along Top Edge of Neg Plate, Hole Burned in Separator, Weak Weld Neg Tab to Plate.
			40°	4327	8	4340	Low Volt Disch, Normal Volt Chg, Deposit on Glass Seal, Hole in Separator Adjacent to Score Band, Separator Completely Deteriorated.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Sonotone 5.0 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
49	15%	1.5	0°	6887	9	2010	Low Volt Disch, Low Volt Chg, Burn on Separator Opposite Pos Tab.
			0°	4370	3	10073	Shorted During Cycling, Short Through Separator Caused By Deep Pressure Points Adjacent to Scoring, Migration of Neg Plate Material, Small Inclusion on Plates Starting to Penetrate Through Separator.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERI (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 5.0 Ampere-Hour (NIMBUS)</u>
							FAILURE ANALYSIS Nickel-Cadmium
128	25	1.5	40	291	3	2422	Shorted During Cycling, Neg Plate Not Welded To Case, Loose Neg Plate Material at Center of Core, Migration of Neg Plate Material, Separator Deteriorated, Ceramic Short.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 6.0 Ampere-Hour</u> FAILURE ANALYSIS <u>Nickel-Cadmium</u>
62	25%	1.5	0°	1630	10	2995	Low Volt Disch, High Volt Chg, Leaked, Lost 6.8 gm, Ceramic Seal Broke, Deposit on Inside of Ceramic, High Pres Bulge, Blistering on Pos Plates.
			0°	1792	4	4066	Low Volt Disch, Low Volt Chg, Small Shorts Through Separator Near Pos Tab, Blistering on Pos Plate, Separator Deteriorated.
			0°	1806	5	4441	Low Volt Disch, Low Volt Chg, Ceramic Short, Blistering on Pos Plates, High Pres Bulge.
			0°	2227	7	8590	Low Volt Disch, Low Volt Chg, High Pressure Bulge, Still Under Pressure When Opened, Pinpoint Penetration, Blistering on Pos Plates, Ceramic Short.
65	15%	3.0	0°	1284	4	5012	Low Volt Disch, Low Volt Chg, Deposit on Pos Terminal, Still Under Pressure When Opened, Concave Sides, Edge of Pos Tab Shorted to Top of Neg Plates, Very Light Migration of Neg Plate Material, Blistering on Pos Plates.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERI (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 6.0 Ampere-Hour (HSI)</u> FAILURE ANALYSIS Nickel-Cadmium
238	25%	1.5	40°	5321	5	4350	Low Volt Disch, Low Volt Chg, Still Under Pressure When Opened, Pos Tab Burned, Migration of Neg Plate Material, Blistering on Pos Plate, Separator Completely Deteriorated, Neg Plate Shorted Through Separator.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PER (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>General Electric 12.0 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
82	25%	1.5	25°	430	2	7527	Low Volt Disch, Normal Volt Chg, Pierced Separator Caused By Rough Place at Top Edge of Neg Plate, Neg Plate Material Migrated, Separator Deteriorated.
124	25%	1.5	0°	410	5	3037	Cell Lost Capacity on Cycling But Came Back When Removed From Pack, So It was Put Back on Cycling in Same Pack.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 20 Ampere-Hour</u> FAILURE ANALYSIS <u>Nickel-Cadmium</u>
102	15%	3.0	0°	449	2	135	Volt Fell Suddenly at End of Chg, Burn Spots at Busses, Concave Around Spots, End Neg Pushed Into Pos Tab.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIC (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gould 20 Ampere-Hour</u>
							FAILURE ANALYSIS Nickel-Cadmium
98	25%	1.5	0°	77	5	3556	Low Volt Disch, Low Volt Chg, Separator Deteriorated, Neg Plate Material Penetrated Separator, Two Pos Plates Not Welded to Tabs.
			0°	47	1	8619	Low Volt Disch, Low Volt Chg, High Pressure Bulge, Pieces of Loose Neg Plate Material Between Plates, Migration of Neg Plate Material, Separator Deteriorated, Short Through Separator at Bottom of Plates Where Tape Holds Plates Together.
105	25%	3.0	25°	40	1	4306	Low Volt Disch, Low Volt Chg, Still Under Pressure When Opened, Hot Spots Around Pinpoint Penetration, Deep Penetration by Blisters on Pos Plate, Separator Deteriorated.
108	15%	3.0	40°	81	2	4003	Shorted on Cycling, Still Under Pressure When Opened, Several Shorts Caused by Small Pieces of Metal Between Plates, Blistering on Pos Plates, Separator Deteriorated.
			40°	82	3	4233	Shorted During Cycling, Still Under Pressure When Opened, Loose Pieces of Pos Plate Material Between Plates, Pinpoint Penetration Blistering on Pos and Neg Plates, Separator Deteriorated, Short Between Pos Plate and Neg Tab at Top of Cell.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Sonotone 3.0 Ampere-Hour</u> FAILURE ANALYSIS: <u>Nickel-Cadmium</u>
202	40%	1.5	25°	A3553	3	1630	Low Volt Disch, Normal Volt Chg, Cell Very Dry, Capacity Decay Due to Insufficient Electrolyte, Migration of Plate Material Around Tab and Scoring Areas.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIOD (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 6.0 Ampere-Hour (Third Electrode)</u> FAILURE ANALYSIS <u>Nickel-Cadmium</u>
11	25%	1.5	25°	147	3	2753	Third Electrode Shorted to Pos, Ceramic Short, Blistering on Pos Plates, Separator Deteriorated, Leaked, Lost 1.3 gm.
59	25%	1.5	0°	140	3	3202	Third Electrode Shorted to Neg Plate, Migration of Neg Plate Material, Shorted out Third Electrode, High Pressure Bulge, Still Under Pressure When Opened, Lost 1.4 gm.
71	40%	1.5	0°	130	5	2993	Low Volt Disch, High Volt Chg, Deposit on Neg Terminal, Leaked, Lost 8.7 gm, High Pressure Bulge, Large Deposits of Loose Active Neg Plate Material, Hot Spots Around Pinpoint Penetration, Blistering on Pos Plates.

PACK NUMBER	DEPTH OF DISCHARGE	ORBIT PERIO (HOURS)	TEST TEMPERATURE	CELL NUMBER	POSITION IN PACK	CYCLES COMPLETED	CELL TYPE: <u>Gulton 3.6 Ampere-Hour</u> FAILURE ANALYSIS <u>Nickel-Cadmium</u>
Sherfey	40%	1.5	25	106	2	2409	Low Volt Disch, Low Volt Chg, Deposit on Edge of Top to Side Weld, Leaked, Lost 3.9 gm., Loose Active Material Pos and Neg, Pinpoint Penetration, Separator Very Dry.

* Failed During This Reporting Period

AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

TYPE	PACK NUMBER	ORBIT PERIOD (Hours)	DEPTH OF DISCHARGE	TEMPERATURE °C	PRECONDITIONING		CAPACITY CHECKS AFTER 88-DAY INTERVALS								CYCLES TO PACK FAILURE
					INITIAL	* (See Note)	FIRST 88 DAYS	SECOND 88 DAYS	THIRD 88 DAYS	FOURTH 88 DAYS	FIFTH 88 DAYS	SIXTH 88 DAYS	SEVENTH 88 DAYS	EIGHTH 88 DAYS	
G.E. 3 A.H.	63	1.5*	15	0	3.48		3.18	3.12	3.05	3.03	3.05	2.90	3.30	3.50	
	64		25	0	3.50		3.33	3.70	3.38	3.35	3.42	3.27	3.12		
	15		25	25	4.00		3.38	2.93	2.33	1.95	1.47	1.15	1.10		
	16		40	25	4.08		2.75	2.10	1.35						5013
	39		15	50/40	1.65	2.43 (779)	2.10	1.53	1.25	1.17	0.70				8109
	40		25	50/40	1.80	2.50 (1440)	0.88*	0.88							2509
G.E. 3 A.H.	67	3	15	0	3.63		3.25	3.40	3.53	2.97	3.25	2.95			
	68		25	0	3.50		3.35	3.53	3.40	3.27	3.25	2.93	2.87		
	19		25	25	3.93		3.78	3.48	3.15	3.00	2.78	2.48	2.29	2.20	
	20		40	25	3.78		3.00	2.35	2.07	1.83	2.00	1.62	1.47	1.20	
	43		15	50/40	1.77	2.63 (320)	2.20	1.61	1.65						2656
	44		25	50/40	1.60	2.00 (327)	1.35	1.19	1.15	1.10	0.95	0.88			
Gould 3.5 A.H.	51	1.5	15	0	3.62		4.60	3.33	3.41	3.21	3.35	3.15	3.47	3.00	
	52		25	0	3.33		3.85	3.53	3.18	3.30	3.24	2.80	2.65		
	3		25	25	4.00		3.82	2.92	2.25						4751
	4		40	25	3.94		3.38	2.77							3164
	27		15	50/40	1.53	2.63 (729)	2.07	1.95	1.90						4485
	28		25	50/40	1.55	2.07 (424)	2.86								1811
Gould 3.5 A.H.	55	3	15	0	3.27		3.59	3.15	3.38	3.33	3.27	3.03	2.77		
	56		25	0	3.50		3.91	3.53	3.65	3.41	3.38	3.30	3.27		
	7		25	25	4.32		4.03	3.79	3.53	2.77	2.28	2.51			
	8		40	25	4.29		3.65	3.35	3.03						2494
	31		15	50/40	1.60	1.31 (329)	1.75	1.98	2.16						2524
	32		25	50/40	1.55	1.66 (495)	1.49								975

Preconditioning at change to 40° C. Number of cycles completed at 50° C is in parentheses.

** Still at 50° C.

AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

TYPE	PACK NUMBER	ORBIT PERIOD (Hours)	DEPTH OF DISCHARGE	TEMPERATURE °C	PRECONDITIONING		CAPACITY CHECKS AFTER 88-DAY INTERVALS								CYCLES TO PACK FAILURE
					INITIAL	* (See Note)	FIRST 88 DAYS	SECOND 88 DAYS	THIRD 88 DAYS	FOURTH 88 DAYS	FIFTH 88 DAYS	SIXTH 88 DAYS	SEVENTH 88 DAYS	EIGHTH 88 DAYS	
Sonotone 5 A.H.	49	1.5	15	0	5.45		5.54	5.50	4.96	4.79	4.71	4.50	4.54		
	50		25	0	5.04		4.96	4.58	4.25	3.79	3.67	3.67	3.46		
	1		25	25	5.42		3.67	2.33	2.88	2.79	2.21	2.58	2.80	2.46	
	2		40	25	6.42		4.38	4.17	3.25	3.00					6671
	25		15	50/40	3.08	3.63 (703)	2.25	1.83	2.04	1.17	1.17	1.54	0.83		
	26		25	50/40	3.17	3.17 (445)	2.75	2.93							3625
Sonotone 5 A.H.	53	3	15	0	5.67		5.79	5.67	5.42	5.33	5.50	5.54	5.00		
	54		25	0	4.92		3.96	3.96	4.13	3.96	3.75	3.29	3.38		
	5		25	25	5.71		4.58	3.04	2.04	2.13	2.13	2.08	2.21		
	6		40	25	5.83		4.50	3.29	3.25	2.92	2.33	2.33	2.00	2.13	
	29		15	50/40	3.33	4.92 (223)	2.75	2.38	2.42	2.08	1.96	1.29	1.79		
	30		25	50/40	3.75	3.50 (183)	1.88	2.88	2.38	1.67	1.21				4141
Gulton 6 A.H.	61	1.5	15	0	5.00		5.10	5.40	4.45	3.15	2.60	2.15	1.75		
	62		25	0	5.00		4.75	3.80	4.35	3.55	3.30	3.30	3.95		
	13		25	25	5.80		2.75	2.85	2.70						4021
	14		40	25	6.40		3.45								2086
	37		15	50/40	2.75	3.60 (239)	1.70	2.95	1.85	2.00					6064
	38		25	50/40	2.65	2.90 (114)	1.55								1377
Gulton 6 A.H.	65	3	15	0	4.50		5.45	5.35	5.15	4.50	4.50	5.15	4.20		
	66		25	0	4.25		5.00	3.50	2.50	3.80	3.90	3.45			4414
	17		25	25	5.80		3.65	3.45	2.50	2.30					2885
	18		40	25	4.55		4.95	3.16							1550
	41		15	50/40	2.75	4.55 (239)	2.05	1.63							1689
	42		25	50/40	2.60	3.80 (96)	2.15	2.10	2.35	1.85	1.50	1.30			4133

* Preconditioning at change to 40° C. Number of cycles completed at 50° C is in parentheses.

AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

TYPE	PACK NUMBER	ORBIT PERIOD (Hours)	DEPTH OF DISCHARGE	TEMPERATURE °C	PRECONDITIONING		CAPACITY CHECKS AFTER 88-DAY INTERVALS								CYCLES TO PACK FAILURE
					INITIAL	*(See Note)	FIRST 88 DAYS	88 SECOND DAYS	88 THIRD DAYS	88 FOURTH DAYS	88 FIFTH DAYS	88 SIXTH DAYS	88 SEVENTH DAYS	88 EIGHTH DAYS	
G.E. 12 A.H.	110	1.5	15	0	13.9		12.7	10.4	13.0	12.5	14.1	13.7	14.3		
	124		25	0	14.2		13.5	12.9	12.8	11.4	11.5	11.7	10.8		
	82		25	25	15.2		8.00	5.55	5.50	5.40	5.70	5.00	4.90		
	96		40	25	14.8		6.00	7.65							4020
	85		15	50/40	6.80	8.20 (334)	5.00	4.70	5.00	4.90	5.00	1.90	4.30		
	99		25	50/40	6.90	6.00 (195)	4.90	5.20	4.40						4853
G.E. 12 A.H.	111	3	15	0	14.2		13.2	10.7	11.0	12.1	12.9	12.0	11.4		
	125		25	0	14.6		13.0	12.1	11.9	12.2	12.9	11.7	11.2		
	83		25	25	15.2		11.7	8.20	6.13	5.20	4.80	4.40	5.10		
	97		40	25	14.9		5.60	5.86	7.90	8.20	6.80	5.50	5.70		
	86		15	50/40	7.10	8.20 (205)	6.30	3.70	4.00	3.50	2.90	2.30	4.40		
	100		25	50/40	7.00	9.80 (70)	3.80	4.70	5.70	5.10	4.00	4.00			
Gould 20 A.H.	84	1.5	15	0	22.5		27.7	26.5	24.2	24.7	21.7	22.3	19.8		
	98		25	0	23.1		21.2	15.2	18.7	17.2	17.5	13.5	13.5		
	104		25	25	25.0		18.5	14.0							2980
	118		40	25	24.7		23.3								2937
	112		15	50/40	9.67	6.83 (183)	15.7	15.3	12.5	12.4					5213
	126		25	50/40	9.00	13.9 (1326)	15.2								1574
Gould 20 A.H.	80	3	15	0	23.0		23.2	21.5	20.3	25.8	19.7	18.3	16.7		
	94		25	0	23.0		17.5	25.0	18.2	18.8	16.8	17.0	15.8		
	105		25	25	23.3		23.5	22.2	21.3	21.2	20.7	10.5	20.5		
	119		40	25	24.8		24.7	21.7							1793
	108		15	50/40	9.50	9.67 (47)	11.8	14.8	16.8	15.2	12.3				
	122		25	50/40	9.33	7.50 (756)	8.17**								983

* Preconditioning at change to 40° C. Number of cycles completed at 50° C is in parentheses.

** Still at 50° C.

AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

TYPE	PACK NUMBER	ORBIT PERIOD (Hours)	DEPTH OF DISCHARGE	TEMPERATURE °C	PRECONDITIONING		CAPACITY CHECKS AFTER 88-DAY INTERVALS								CYCLES TO PACK FAILURE
					INITIAL	* (See Note)	FIRST 88 DAYS	SECOND 88 DAYS	THIRD 88 DAYS	FOURTH 88 DAYS	FIFTH 88 DAYS	SIXTH 88 DAYS	SEVENTH 88 DAYS	EIGHTH 88 DAYS	
Gulton 20 A.H.	101	1.5	15	0	17.2		12.5	5.67							3631
	115		25	0	17.7		11.2								2288
	73		25	25	23.3		7.17	9.50	7.83	8.67	8.83				7763
	87		40	25	23.3										627
	76		15	50/40	10.3	13.8 (172)	6.50	4.83	5.50	4.67	5.00	5.17			
	90		25	50/40	9.00	11.3 (65)	6.00	10.3	7.35**						4045
Gulton 20 A.H.	102	3	15	0	16.7		18.8	25.2	20.3	19.5	17.3	17.0	15.0		
	116		25	0	21.7		20.7	21.8	19.3	17.5	15.2	15.8	13.5		
	74		25	25	20.3		6.17	7.17							1754
	88		40	25	19.8										358
	77		15	50/40	9.50	12.7 (71)	7.33	5.33	4.83	5.33	4.67	5.00	5.17		
	91		25	50/40	9.17	10.3 (47)	6.67	6.67	7.67	6.83	7.17	5.50			
Yardney 12 A.H.	57	24	50	0	13.8		8.60								166
	33		50	40	13.5		12.0								210
Gulton 6 A.H.	79	24	50	25	6.60		3.55	4.40	4.25	4.05	3.50				
								(40°C)	(40°C)						
G.E. 12 A.H.	93	24	50	40 ***	13.0		7.60	6.50	5.00						349
Gulton 50 A.H.	95	1.5	25	0	54.6		59.6	45.4							3127
	123		15	40	27.9										

* Preconditioning at change to 40° C. Number of cycles completed at 50° C is in parentheses.

** Two cells only; pack failed during capacity check.

*** Changed from 25° to 40° C ambient after 173 cycles.

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[illegible]

AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

[illegible]

AMPERE-HOUR CAPACITIES ON PRECONDITIONING AND CAPACITY CHECK CYCLES

PACK NUMBER	ORBIT PERIOD (Hours)	DEPTH OF DISCHARGE	TEMPERATURE °C	INITIAL PRECONDI- TIONING	CAPACITY CHECKS AFTER 88-DAY INTERVALS										CYCLES TO PACK FAILURE
					FIRST 88 DAYS	SECOND 88 DAYS	THIRD 88 DAYS	FOURTH 88 DAYS	FIFTH 88 DAYS	SIXTH 88 DAYS	SEVENTH 88 DAYS	EIGHTH 88 DAYS	NINTH 88 DAYS	TENTH 88 DAYS	
Fulton (Nimbus) 5 A.H.	117	15	0	5.00	5.17	5.46									
	121	25	0	5.38	5.38	5.33									
	120	15	25	5.25	5.40	4.17									
	318	25	25	5.46	2.55	1.67									
	27	15	40	3.39	1.67	1.50									
	28	25	40	3.04	1.42	1.54									
Gulton 6 A.H. (Third elec- trode)	59	25	0	7.15	7.00	6.20									
	71	40	0	7.25	7.50	7.00									
	11	40	25	7.10	3.15	6.20	4.35								
	23	25	25	5.95	3.85	5.20	4.00								
	35	15	40	2.95	2.25	1.60									
	47	25	40	3.95	2.10	2.05									
G.E. (Nimbus) 5 A.H.	103	15	0	5.42	5.08	5.38									
	107	25	0	5.21	5.50	5.46									
	106	15	25	4.67	4.13	4.13	3.50								
	304	25	25	5.58	3.58	2.54									
	113	15	40	3.67	2.42	2.25	1.83								
	114	25	40	3.83	2.25	1.71									
G.E. 12 A.H. (Third elec- trode)	60	25	0	15.0											
	72														
	12	25	25	10.2											
	24	40	25	9.10											
	36														
	48	25/40	40/0	5.30*											

* At 40° C.

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[illegible]

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[illegible]

MFR.	CAPACITY A. H.	PACK NO.	TEMP. °C.	ORBIT PERIOD (HRS.)		PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED			CELLS REMAIN ING IN PACK	
				DISCHARGE	CHARGE				INITIAL	FINAL	DIFFERENCE	INITIAL	FINAL
G.E. (pages 72-76)	3	63	0	0.5	1.0	15	115	1.55	12890	13289	399	10	10
		64	0	"	"	25	"	"	12864	13315	451	10	10
		15	25	"	"	25	125	1.49		FAILED			
		16	25	"	"	40	"	"		FAILED			
		39	40	"	"	15	160	1.45		FAILED			
		40	40	"	"	25	"	1.41		FAILED			
		67	0	"	2.5	15	115	1.55	6232	6468	236	10	10
		68	0	"	"	25	"	"	6339	6584	245	10	10
		19	25	"	"	25	125	1.49	6314	6535	221	10	10
		20	25	"	"	40	"	"		FAILED			
		43	40	"	"	15	160	1.45		FAILED			
		44	40	"	"	25	"	"		FAILED			
GOULD (pages 77-80)	3.5	51	0	"	1.0	15	115	1.55	12907	13269	362	10	10
		52	0	"	"	25	"	"	12573	13024	451	5	5
		3	25	"	"	25	125	1.49		FAILED			
		4	25	"	"	40	"	"		FAILED			
		27	40	"	"	15	160	1.45		FAILED			
		28	40	"	"	25	"	"		FAILED			
		55	0	"	2.5	15	115	1.55	6332	6541	209	10	10
		56	0	"	"	25	"	"	6255	6550	295	10	10
		7	25	"	"	25	125	1.49		FAILED			
		8	25	"	"	40	"	"		FAILED			
		31	40	"	"	15	160	1.45		FAILED			
		32	40	"	"	25	"	1.41		FAILED			

MFR.	CAPACITY A. H.	PACK NO.	TEMP. °C.	ORBIT PERIOD (HRS.)		PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED			CELLS REMAIN- ING IN PACK	
				DISCHARGE	CHARGE				INITIAL	FINAL	DIFFERENCE	INITIAL	FINAL
SONOTONE (pages 81-86)	5	49	0	0.5	1.0	15	115	1.55	12501	13026	525	8	8
		50	0	"	"	25	"	"	12498	13031	539	9	9
		1	25	"	"	25	125	1.49		FAILED			
		2	25	"	"	40	"	"		FAILED			
		25	40	"	"	15	160	1.45		FAILED			
		26	40	"	"	25	"	"		FAILED			
		53	0	"	2.5	15	115	1.55	6198	6417	219	10	10
		54	0	"	"	25	"	"	6129	6338	209	10	10
		5	25	"	"	25	125	1.49	6042	6287	245	8	8
		6	25	"	"	40	"	"		FAILED	1		
		29	40	"	"	15	160	1.45	5786	5975	189	5	0
		30	40	"	"	25	"	"		FAILED			
GULTON (pages 87-88)	6	61	0	"	1.0	15	115	1.55		FAILED			
		62	0	"	"	25	"	"	12191	12730	539	6	6
		13	25	"	"	25	125	1.49		FAILED			
		14	25	"	"	40	"	"		FAILED			
		37	40	"	"	15	160	1.45		FAILED			
		38	40	"	"	25	"	"		FAILED			
		65	0	"	2.5	15	115	1.55	6111	6228	117	8	7
		66	0	"	"	25	"	"		FAILED			
		17	25	"	"	25	125	1.49		FAILED			
		18	25	"	"	40	"	"		FAILED			
		41	40	"	"	15	160	1.45		FAILED			
		42	40	"	"	25	"	"		FAILED			

MFR.	CAPACITY A. H.	PACK NO.	TEMP. °C.	ORBIT PERIOD (HRS)		PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED			CELLS REMAIN- ING IN PACK	
				DISCHARGE	CHARGE				INITIAL	FINAL	DIFFERENCE	INITIAL	FINAL
G. E. (pages 89-94)	12	110	0	0.5	1.0	15	115	1.55	12283	12808	525	5	5
		124	0	"	"	25	"	"	12050	12575	525	5	5
		82	25	"	"	25	125	1.49		FAILED			
		96	25	"	"	40	"	"		FAILED			
		85	40	"	"	15	160	1.45		FAILED			
		99	40	"	"	25	"	"		FAILED			
		111	0	"	2.5	15	115	1.55	6108	6335	227	5	5
		125	0	"	"	25	"	"	6101	6360	259	5	5
		83	25	"	"	25	125	1.49	6114	6409	294	5	5
		97	25	"	"	40	"	"		FAILED			
		86	40	"	"	15	160	1.45	5919	6214	295	5	5
		100	40	"	"	25	"	"		FAILED			
GOULD (pages 95-97)	20	84	0	"	1.0	15	115	1.55	12231	12759	528	5	5
		98	0	"	"	25	"	"		FAILED			
		104	25	"	"	25	125	1.49		FAILED			
		118	25	"	"	40	"	"		FAILED			
		112	40	"	"	15	160	1.45		FAILED			
		126	40	"	"	25	"	1.41		FAILED			
		80	0	"	2.5	15	115	1.55	6104	6349	245	5	5
		94	0	"	"	25	"	"	5988	6233	245	5	5
		105	25	"	"	25	125	1.49		FAILED			
		119	25	"	"	40	"	"		FAILED			
		108	40	"	"	15	160	1.45		FAILED			
		122	40	"	"	25	"	1.41		FAILED			

MFR.	CAPACITY A. H	PACK NO.	TEMP °C.	ORBIT PERIOD (HRS)		PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED			CELLS REMAIN- ING IN PACK	
				DISCHARGE	CHARGE				INITIAL	FINAL	DIFFERENCE	INITIAL	FINAL
GULTON (pages 98-100)	20	101	0	0.5	1.0	15	115	1.55		FAILED			
		115	0	"	"	25	"	"		FAILED			
		73	25	"	"	25	125	1.49		FAILED			
		87	25	"	"	40	"	"		FAILED			
		76	40	"	"	15	160	1.45		FAILED			
		90	40	"	"	25	"	"		FAILED			
		102	0	"	2.5	15	115	1.55	5932	6177	245	4	4
		116	0	"	"	25	"	"	5776	6021	245	5	5
		74	25	"	"	25	125	1.49		FAILED			
		88	25	"	"	40	"	"		FAILED			
		77	40	"	"	15	160	1.45	5820	6011	191	3	0
		91	40	"	"	25	"	"		FAILED			
G.E. TIMES (pages 101-105)	5	103	0	"	1.0	15	110	1.49	5177	5704	527	5	5
		107	0	"	"	25	"	"	4531	5039	508	5	5
		106	25	"	"	15	120	"	5198	5674	496	5	5
		304	25	"	"	25	"	"	4501	4972	471	5	5
		113	40	"	"	15	130	"		FAILED			
		114	40	"	"	25	"	"	4470	4941	471	5	5
GULTON NUMBUS (pages 106-111)	5	117	0	"	"	15	110	"	4971	5498	527	5	5
		121	0	"	"	25	"	"	4533	5041	508	5	5
		120	25	"	"	15	120	"	5073	5586	513	5	5
		318	25	"	"	25	"	"	4552	4960	408	5	4
		127	40	"	"	15	130	"	5118	5626	508	5	5
		128	40	"	"	25	"	"	4395	4903	508	4	4

MFR.	CAPACITY A. H.	PACK NO.	TEMP °C.	ORBIT PERIOD (HRS.)		PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED			CELLS REMAIN ING IN PACK	
				DISCHARGE	CHARGE				INITIAL	FINAL	DIFFERENCE	INITIAL	FINAL
YARDNEY	12	57	0	1.0	23.0	50	*	1.50		FAILED			
		33	40	"	"	"	*	1.50		FAILED			
GULTON (page)	6	79	25	1.0	23.0	50	200	1.49		FAILED			
G.E. (page)	12	93	25**	1.0	23.0	50	200***	1.49**		FAILED			
GULTON (page)	50	95	0	0.5	1.0	25	115	1.55		FAILED			
		123	40	"	"	15	160	1.45		FAILED			
DELCO (pages) (NaOH) →	25	75	25	1.0	23.0	40	*	1.97		FAILED			
		89	25	"	"	"	*	"		FAILED			
		288	25	0.5	2.5	"	*	"		DISCONTINUED			
		188	25	"	"	"	*	"		FAILED			
DELCO (pages)	40	275	25	1.0	23.0	25	*	1.97		DISCONTINUED			
YARDNEY	12 AgZn Lim- ited discharge	9	25	1.0	23.0	42 (5 amps)	(500 Ma.)	1.97		FAILED			

* DOES NOT APPLY

** CHANGED TO 40°C, 1.45 V/CELL LIMIT AFTER CYCLE 173.

*** INCREASED TO 250% AFTER CYCLE 266.

[illegible]

MFR.	CAPACITY A. H.	PACK NO.	TEMP °C.	ORBIT PERIOD (HRS)		PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED			CELLS REMAIN- ING IN PACK	
				DISCHARGE	CHARGE				INITIAL	FINAL	DIFFERENCE	INITIAL	FINAL
YARDNEY (Pages 129-131)	5.0	257	0	1.0	23.0	20	(.30A)	1.50	191	220	29	4	3
		409	25	"	"	"	"	"		FAILED			
		21	25	"	"	"	"	"		FAILED			
		69	25	"	"	"	"	"	148	178	30	5	5
		45	40	"	"	"	"	"		FAILED			
		233	25	"	"	"	"	"	148	178	30	5	5
GULTON (Pages 132-138)	5.6	232	-20	0.5	1.0	25	115	1.55	1305	1836	529	5	5
		244	-20	"	"	"	"	"	1305	1836	529	5	5
		200	0	"	"	"	"	"	1577	2008	431	5	5
		390	0	"	"	"	"	"	1603	2093	490	5	5
		276	25	"	"	"	125	1.49	1654	2206	402	5	5
		396	25	"	"	"	"	"	1719	2183	464	5	5
		230	40	"	"	"	160	1.45		FAILED			
		242	40	"	"	"	"	"	1776	2301	525	5	5
GULTON Coulometer 139	3.6	239	25	"	"	40	(3.6A)	1.48	1874	2427	553	10	9
SONOTONE Coulometer page 140	5.0		25	0.5	1.0	30	(.30A)	—	8025	8439	414	5	5
GULTON Sherfey PAGE 141	3.6		25	0.5	1.0	40	60	—	3311	3788	477	8	7

* DOES NOT APPLY

MFR.	CAPACITY A. H	PACK NO.	TEMP °C.	ORBIT PERIOD (HRS)		PERCENT DEPTH OF DISCHARGE	PERCENT OF RECHARGE	CHARGE VOLTAGE LIMIT	CYCLES COVERED			CELLS REMAIN- ING IN PACK	
				DISCHARGE	CHARGE				INITIAL	FINAL	DIFFERENCE	INITIAL	FINAL
GULTON (pages 142-147)	6 (THIRD ELECTRODE)	59	0	0.5	1.0	25	—	—	5011	5525	514	4	4
		71	0	"	"	40	—	—	5070	5456	386	4	4
		11	25	"	"	40	—	—	6192	6697	505	4	4
		23	25	"	"	25	—	—	6175	6689	514	5	5
		35	40	"	"	15	—	—	4172	4686	514	5	5
		47	40	"	"	25	—	—	4842	5342	500	5	3
G.E. (pages 148-149)	12 (THIRD ELECTRODE)	60	0	"	"	25	—	—	2693	3174	481	5	5
		72	0	"	"	40	—	—					
		12	25	"	"	25	—	—	DISCONTINUED				
		24	25	"	"	40	—	—	DISCONTINUED				
		36	40	"	"	15	—	—					
		42	40	"	"	25	—	—	2031	2509	478	5	5
GULTON (pages 150-153)	5 (STANDARD)	175	-20	"	"	25	—	—		FAILED			
		289	-20	"	"	40	—	—		FAILED			
		92	0	"	"	25	—	—	3072	3597	525	5	5
		322	0	"	"	40	—	—	2853	3392	539	4	4
		273	25	"	"	25	—	—	3441	3742	301	3	0
		287	25	"	"	40	—	—		FAILED			
		299	40	"	"	25	—	—	3171	3361	190	5	4
		312	40	"	"	40	—	—		FAILED			
GULTON Pages (154-157)	1.25	174	-20	"	"	25	—	—	91	594	503	5	5
		388	-20	"	"	40	—	—	38	184	146	5	5
		198	0	"	"	60	—	—	382	901	519	5	5
		308	0	"	"	25	—	—	382	901	519	5	5

[illegible]

PACK NO. 63
G.E. 3 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 0.90	1	2	3	4	5	6	7	8	9	10	
12921.	12.50	.90	1.26	1.26	1.27	1.23	1.25	1.24	1.24	1.25	1.25	1.24	END OF DISCHARGE
12950.	12.48	.90	1.25	1.26	1.26	1.22	1.24	1.24	1.24	1.24	1.24	1.24	
12986.	12.46	.90	1.25	1.26	1.26	1.23	1.24	1.24	1.24	1.24	1.24	1.24	
13017.	12.45	.90	1.25	1.26	1.26	1.22	1.24	1.24	1.24	1.24	1.24	1.24	
13050.	12.44	.90	1.25	1.26	1.26	1.22	1.24	1.23	1.24	1.24	1.24	1.24	
13125.	12.00	.90	1.26	1.27	1.27	1.24	1.26	1.25	1.25	1.25	1.25	1.25	
13182.	12.56	.90	1.26	1.26	1.27	1.23	1.26	1.25	1.24	1.25	1.25	1.25	
13221.	12.49	.89	1.26	1.26	1.26	1.22	1.25	1.24	1.24	1.24	1.24	1.24	
13252.	12.48	.90	1.25	1.25	1.26	1.22	1.25	1.24	1.23	1.24	1.24	1.24	
13289.	12.45	.90	1.25	1.25	1.25	1.21	1.24	1.23	1.23	1.24	1.24	1.24	
		.52											
12921.	15.70	.22	1.61	1.49	1.62	1.56	1.65	1.61	1.50	1.55	1.49	1.57	END OF CHARGE
12950.	15.72	.22	1.62	1.49	1.62	1.57	1.65	1.61	1.50	1.55	1.49	1.57	
12986.	15.68	.22	1.61	1.49	1.63	1.57	1.65	1.60	1.50	1.54	1.49	1.57	
13017.	15.70	.22	1.61	1.49	1.63	1.57	1.65	1.60	1.50	1.54	1.49	1.57	
13050.	15.71	.22	1.62	1.49	1.63	1.57	1.65	1.60	1.50	1.53	1.49	1.57	
13125.	15.73	.18	1.62	1.49	1.62	1.59	1.63	1.61	1.51	1.58	1.49	1.57	
13182.	16.25	.36	1.64	1.55	1.66	1.65	1.66	1.65	1.58	1.61	1.58	1.61	
13221.	16.20	.42	1.65	1.54	1.65	1.64	1.66	1.64	1.58	1.60	1.57	1.60	
13252.	16.17	.41	1.64	1.54	1.65	1.64	1.66	1.63	1.57	1.59	1.56	1.60	
13289.	16.21	.39	1.65	1.53	1.65	1.65	1.67	1.64	1.57	1.59	1.57	1.61	

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PACK NO. 64
G.E. 3 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	1	2	3	4	5	6	7	8	9	10.	
CELL VOLTAGES													
12895.	12.12	1.51	1.21	1.22	1.22	1.22	1.21	1.20	1.21	1.20	1.21	1.20	END OF DISCHARGE
12925.	12.09	1.52	1.21	1.22	1.21	1.21	1.21	1.20	1.20	1.20	1.21	1.19	
12960.	12.00	1.51	1.21	1.21	1.21	1.21	1.21	1.20	1.20	1.20	1.20	1.19	
12991.	12.06	1.51	1.21	1.22	1.21	1.21	1.21	1.20	1.20	1.20	1.20	1.19	
13024.	12.05	1.51	1.21	1.22	1.21	1.21	1.21	1.20	1.20	1.20	1.20	1.19	
13099.	12.15	1.51	1.22	1.23	1.22	1.22	1.22	1.21	1.21	1.21	1.21	1.20	
13165.	12.02	1.51	1.20	1.21	1.21	1.21	1.21	1.20	1.20	1.19	1.20	1.19	
13208.	12.05	1.51	1.21	1.21	1.21	1.21	1.21	1.20	1.20	1.20	1.20	1.19	
13251.	12.01	1.52	1.20	1.21	1.20	1.20	1.20	1.19	1.19	1.19	1.19	1.18	
13278.	12.00	1.51	1.20	1.21	1.20	1.20	1.20	1.19	1.20	1.19	1.19	1.18	
13315.	12.00	1.52	1.20	1.20	1.20	1.20	1.21	1.19	1.19	1.19	1.19	1.18	
		.86											
12895.	15.46	.35	1.50	1.54	1.60	1.64	1.51	1.52	1.51	1.52	1.54	1.53	END OF CHARGE
12925.	15.45	.35	1.50	1.54	1.60	1.63	1.52	1.51	1.50	1.53	1.55	1.52	
12960.	15.43	.34	1.51	1.54	1.60	1.63	1.51	1.51	1.50	1.52	1.54	1.52	
12991.	15.48	.35	1.51	1.54	1.61	1.65	1.52	1.51	1.50	1.52	1.54	1.53	
13024.	15.45	.35	1.51	1.54	1.61	1.64	1.51	1.51	1.50	1.52	1.53	1.54	
13099.	15.48	.28	1.50	1.55	1.61	1.64	1.53	1.51	1.49	1.53	1.54	1.55	
13165.	15.45	.34	1.50	1.54	1.60	1.63	1.52	1.51	1.50	1.54	1.53	1.53	
13208.	15.42	.34	1.51	1.53	1.60	1.63	1.52	1.50	1.50	1.52	1.53	1.53	
13251.	15.45	.35	1.50	1.53	1.60	1.64	1.50	1.51	1.49	1.51	1.54	1.53	
13278.	15.41	.35	1.50	1.53	1.60	1.64	1.51	1.50	1.49	1.51	1.53	1.52	
13315.	15.43	.35	1.49	1.53	1.60	1.63	1.52	1.51	1.49	1.52	1.53	1.53	

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PACK NO. 67
G.E. 3 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 0.90	CELL VOLTAGES										
			1	2	3	4	5	6	7	8	9	10	
6281.	12.95	.90	1.30	1.30	1.28	1.30	1.30	1.30	1.29	1.29	1.29	1.29	END OF DISCHARGE
6313.	13.76	.01	1.37	1.40	1.36	1.38	1.39	1.39	1.36	1.38	1.34	1.38	
6345.	12.50	.90	1.25	1.26	1.23	1.26	1.25	1.25	1.25	1.24	1.25	1.24	
6423.	12.44	.90	1.25	1.25	1.24	1.25	1.25	1.25	1.24	1.24	1.24	1.24	
6459.	12.41	.90	1.24	1.24	1.23	1.25	1.24	1.24	1.23	1.23	1.23	1.23	
		.21											
6281.	16.00	.09	1.64	1.50	1.51	1.64	1.64	1.62	1.60	1.59	1.59	1.61	END OF CHARGE
6313.	15.98	.11	1.64	1.50	1.52	1.65	1.64	1.62	1.58	1.59	1.59	1.61	
6345.	16.01	.14	1.64	1.51	1.53	1.64	1.64	1.61	1.59	1.59	1.59	1.61	
6423.	15.82	.13	1.60	1.49	1.53	1.61	1.63	1.62	1.56	1.60	1.53	1.61	
6459.	15.81	.13	1.60	1.49	1.52	1.60	1.63	1.61	1.53	1.59	1.52	1.60	

HL

PACK NO. 68
G.E. 3 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES										
			1	2	3	4	5	6	7	8	9	10	
6370.	12.01	1.51	1.19	1.20	1.20	1.21	1.20	1.20	1.21	1.20	1.18	1.20	END OF DISCHARGE
6402.	12.00	1.51	1.19	1.20	1.21	1.21	1.20	1.20	1.21	1.20	1.17	1.20	
6455.	11.98	1.50	1.19	1.19	1.21	1.21	1.20	1.20	1.21	1.19	1.17	1.20	
6480.	12.00	1.51	1.19	1.20	1.21	1.21	1.20	1.21	1.21	1.20	1.17	1.20	
6516.	11.96	1.50	1.20	1.20	1.21	1.22	1.22	1.22	1.22	1.20	1.18	1.22	
6548.	11.99	1.52	1.18	1.19	1.20	1.20	1.20	1.20	1.20	1.19	1.19	1.20	
6584.	11.95	1.48	1.18	1.20	1.20	1.21	1.20	1.20	1.21	1.20	1.16	1.20	
		.34											
6370.	15.76	.14	1.65	1.66	1.57	1.54	1.63	1.62	1.54	1.62	1.38	1.50	END OF CHARGE
6402.	15.81	.15	1.66	1.67	1.59	1.53	1.63	1.62	1.55	1.63	1.38	1.51	
6455.	15.73	.15	1.65	1.65	1.60	1.50	1.61	1.62	1.55	1.62	1.38	1.51	
6480.	15.71	.15	1.65	1.65	1.60	1.51	1.60	1.61	1.55	1.61	1.38	1.51	
6516.	15.74	.16	1.65	1.65	1.60	1.50	1.61	1.61	1.55	1.62	1.37	1.50	
6548.	15.66	.14	1.64	1.64	1.59	1.49	1.59	1.61	1.52	1.61	1.38	1.49	
6584.	15.63	.12	1.64	1.65	1.57	1.51	1.61	1.60	1.54	1.61	1.37	1.49	

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PACK NO. 19
G.E. 3 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES										
			1	2	3	4	5	6	7	8	9	10	
6345.	11.93	1.52	1.19	1.20	1.19	1.21	1.20	1.19	1.19	1.18	1.19	1.19	END OF DISCHARGE
6377.	11.93	1.51	1.19	1.20	1.20	1.21	1.19	1.19	1.19	1.18	1.19	1.19	
6467.	11.95	1.54	1.20	1.21	1.21	1.23	1.22	1.21	1.20	1.20	1.21	1.21	
6345.	14.39	.38	1.44	1.46	1.44	1.43	1.44	1.43	1.43	1.42	1.44	1.42	END OF CHARGE
6377.	14.43	.38	1.44	1.46	1.45	1.43	1.44	1.43	1.44	1.42	1.44	1.43	
6467.	14.45	.38	1.45	1.46	1.45	1.43	1.45	1.43	1.44	1.42	1.43	1.43	

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PACK NO. 51
GOULD 3.5 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE PACK CURRENT
NO. VOLTAGE 1.05

CELL VOLTAGES

1 2 3 4 5 6 7 8 9 10

12867.	12.43	1.05	1.25	1.24	1.22	1.25	1.24	1.24	1.24	1.23	1.26	1.23
12938.	12.51	1.05	1.25	1.24	1.23	1.25	1.24	1.25	1.26	1.26	1.26	1.26
13003.	12.43	1.05	1.25	1.23	1.23	1.25	1.24	1.23	1.24	1.23	1.26	1.26
13034.	12.45	1.05	1.25	1.24	1.22	1.27	1.24	1.24	1.23	1.22	1.25	1.27
13067.	12.44	1.05	1.25	1.23	1.22	1.27	1.23	1.24	1.23	1.23	1.25	1.25
13142.	12.54	1.04	1.25	1.24	1.22	1.30	1.24	1.25	1.23	1.26	1.26	1.28
13188.	12.46	1.06	1.25	1.23	1.22	1.23	1.25	1.24	1.23	1.24	1.26	1.26
13220.	12.49	1.06	1.25	1.24	1.22	1.26	1.24	1.24	1.24	1.24	1.27	1.26

END OF
DISCHARGE

		.60										
12867.	15.41	.56	1.56	1.59	1.60	1.46	1.57	1.59	1.56	1.47	1.54	1.44
12938.	15.41	.54	1.56	1.58	1.60	1.46	1.56	1.56	1.55	1.47	1.54	1.48
13003.	15.39	.54	1.56	1.58	1.60	1.46	1.57	1.54	1.56	1.46	1.54	1.48
13034.	15.41	.56	1.56	1.59	1.60	1.48	1.56	1.55	1.56	1.45	1.52	1.50
13067.	15.42	.55	1.56	1.59	1.60	1.49	1.57	1.58	1.56	1.48	1.52	1.46
13142.	15.49	.41	1.54	1.56	1.57	1.49	1.57	1.60	1.55	1.58	1.50	1.51
13188.	15.68	.51	1.55	1.57	1.58	1.43	1.60	1.62	1.57	1.60	1.55	1.54
13220.	15.64	.57	1.56	1.58	1.59	1.46	1.57	1.59	1.56	1.56	1.55	1.58

END OF
CHARGE

77

PACK NO. 52
GOULD 3.5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE No.	PACK VOLTAGE	CURRENT 1.75	CELL VOLTAGES										
			1	2	3	4	5	6	7	8	9	10	
12604.	5.96	1.76	1.20	1.22	.00	1.19	1.19	1.18	.00	.00	.00	.00	END OF DISCHARGE
12634.	5.95	1.77	1.18	1.22	.00	1.19	1.19	1.18	.00	.00	.00	.00	
12669.	5.94	1.77	1.18	1.21	.00	1.19	1.19	1.18	.00	.00	.00	.00	
12700.	5.94	1.77	1.19	1.21	.00	1.19	1.19	1.18	.00	.00	.00	.00	
12733.	5.93	1.77	1.19	1.21	.00	1.19	1.19	1.18	.00	.00	.00	.00	
12808.	5.95	1.76	1.22	1.21	.00	1.18	1.19	1.17	.00	.00	.00	.00	
12874.	5.92	1.76	1.18	1.20	.00	1.19	1.19	1.18	.00	.00	.00	.00	
12960.	5.88	1.78	1.17	1.16	.00	1.18	1.18	1.17	.00	.00	.00	.00	
13024.	5.88	1.78	1.19	1.14	.00	1.18	1.19	1.18	.00	.00	.00	.00	
		1.00											
12604.	7.76	.58	1.52	1.49	.00	1.61	1.57	1.59	.00	.00	.00	.00	END OF CHARGE
12634.	7.75	.59	1.51	1.50	.00	1.61	1.57	1.58	.00	.00	.00	.00	
12669.	7.74	.58	1.51	1.50	.00	1.60	1.57	1.58	.00	.00	.00	.00	
12700.	7.77	.57	1.52	1.51	.00	1.61	1.57	1.59	.00	.00	.00	.00	
12733.	7.75	.58	1.51	1.50	.00	1.60	1.57	1.58	.00	.00	.00	.00	
12808.	7.78	.51	1.57	1.53	.00	1.59	1.55	1.57	.00	.00	.00	.00	
12874.	7.66	.72	1.50	1.49	.00	1.59	1.55	1.57	.00	.00	.00	.00	
12960.	7.74	.58	1.52	1.44	.00	1.62	1.57	1.58	.00	.00	.00	.00	
13024.	7.72	.61	1.52	1.43	.00	1.61	1.57	1.58	.00	.00	.00	.00	

PACK NO. '55
GOULD 3.5 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.05	1	2	3	4	5	6	7	8	9	10	
6363.	12.39	1.08	1.24	1.25	1.24	1.24	1.24	1.23	1.23	1.23	1.24	1.23	END OF DISCHARGE
6395.	12.43	1.07	1.24	1.25	1.25	1.24	1.23	1.24	1.25	1.25	1.23	1.24	
6448.	12.38	1.06	1.24	1.24	1.25	1.10	1.23	1.23	1.23	1.23	1.23	1.24	
6473.	12.37	1.07	1.24	1.24	1.25	1.24	1.23	1.23	1.23	1.23	1.23	1.24	
6509.	12.37	1.06	1.25	1.25	1.25	1.25	1.25	1.24	1.24	1.24	1.26	1.26	
6541.	12.34	1.07	1.23	1.23	1.24	1.22	1.22	1.22	1.22	1.22	1.22	1.23	
		.24											
6363.	15.33	.24	1.53	1.56	1.53	1.55	1.54	1.52	1.52	1.52	1.52	1.51	END OF CHARGE
6395.	15.30	.24	1.53	1.55	1.53	1.54	1.53	1.52	1.52	1.52	1.52	1.51	
6448.	15.31	.24	1.53	1.56	1.54	1.55	1.53	1.52	1.52	1.52	1.51	1.51	
6473.	15.26	.25	1.53	1.55	1.53	1.54	1.53	1.52	1.52	1.51	1.51	1.50	
6509.	15.23	.25	1.52	1.54	1.52	1.53	1.52	1.51	1.51	1.51	1.50	1.50	
6541.	15.26	.25	1.52	1.54	1.52	1.53	1.52	1.51	1.51	1.51	1.50	1.50	

PACK NO. 56
GOULD 3.5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.75	1	2	3	4	5	6	7	8	9	10	
6304.	12.12	1.75	1.21	1.21	1.23	1.22	1.20	1.20	1.21	1.20	1.20	1.21	END OF DISCHARGE
6336.	12.08	1.76	1.20	1.21	1.22	1.22	1.20	1.20	1.21	1.20	1.20	1.20	
6368.	12.05	1.77	1.20	1.21	1.21	1.21	1.20	1.19	1.20	1.20	1.20	1.20	
6446.	12.00	1.76	1.20	1.20	1.22	1.21	1.20	1.20	1.20	1.20	1.20	1.20	
6482.	14.05	1.72	1.42	1.42	1.35	1.39	1.39	1.40	1.36	1.41	1.41	1.39	
6514.	12.14	1.78	1.20	1.20	1.22	1.22	1.21	1.20	1.21	1.20	1.20	1.21	
		.40											
6304.	15.53	.24	1.54	1.55	1.55	1.60	1.55	1.55	1.55	1.53	1.54	1.55	END OF CHARGE
6336.	15.53	.26	1.54	1.55	1.55	1.59	1.54	1.55	1.55	1.53	1.54	1.55	
6368.	15.54	.27	1.54	1.56	1.54	1.59	1.55	1.55	1.55	1.54	1.54	1.55	
6446.	15.56	.32	1.54	1.55	1.55	1.59	1.55	1.55	1.55	1.54	1.55	1.55	
6482.	15.53	.29	1.54	1.54	1.52	1.58	1.54	1.54	1.53	1.53	1.53	1.54	
6514.	14.64	.40	1.45	1.46	1.45	1.47	1.47	1.46	1.47	1.45	1.46	1.45	

PACK NO. 49
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	1	2	3	4	5	6	7	8	9	10	
12533.	9.77	1.51	1.21	1.22	.01	1.21	1.21	1.23	1.24	1.23	.00	1.23	END OF DISCHARGE
12583.	9.74	1.49	1.21	1.22	.00	1.20	1.21	1.22	1.23	1.23	.00	1.23	
12598.	9.73	1.51	1.21	1.21	.01	1.20	1.20	1.22	1.23	1.23	.00	1.22	
12629.	9.71	1.52	1.20	1.21	.00	1.20	1.20	1.21	1.23	1.22	.00	1.22	
12662.	9.72	1.52	1.20	1.21	.01	1.20	1.20	1.21	1.23	1.23	.00	1.22	
12721.	9.69	1.50	1.20	1.21	.00	1.20	1.20	1.21	1.23	1.22	.00	1.22	
12773.	9.71	1.47	1.20	1.21	.00	1.20	1.20	1.22	1.23	1.22	.00	1.22	
12802.	9.73	1.50	1.20	1.21	.01	1.20	1.20	1.22	1.23	1.23	.00	1.22	
12845.	9.71	1.50	1.20	1.21	.00	1.20	1.20	1.21	1.23	1.23	.00	1.22	
12884.	9.68	1.47	1.20	1.20	.00	1.20	1.21	1.21	1.23	1.22	.00	1.21	
12916.	9.64	1.54	1.20	1.20	.00	1.19	1.20	1.21	1.22	1.22	.00	1.22	
12951.	9.65	1.53	1.19	1.20	.01	1.19	1.20	1.22	1.22	1.22	.00	1.21	
12980.	9.60	1.52	1.18	1.19	.01	1.18	1.19	1.20	1.21	1.20	.00	1.20	
12994.	9.63	1.54	1.19	1.20	.01	1.19	1.19	1.21	1.22	1.21	.00	1.21	
13026.	9.66	1.49	1.19	1.20	.01	1.19	1.20	1.21	1.22	1.22	.00	1.21	
		.86											
12533.	12.61	.59	1.57	1.56	.01	1.57	1.55	1.62	1.58	1.57	.00	1.56	END OF CHARGE
12583.	12.51	.57	1.56	1.55	.01	1.56	1.54	1.61	1.57	1.56	.00	1.55	
12598.	12.49	.55	1.56	1.54	.01	1.56	1.53	1.60	1.56	1.55	.00	1.55	
12629.	12.49	.57	1.56	1.55	.01	1.56	1.54	1.59	1.57	1.55	.00	1.55	
12662.	12.49	.58	1.56	1.55	.01	1.56	1.54	1.57	1.57	1.56	.00	1.55	
12721.	12.49	.59	1.57	1.56	.00	1.56	1.54	1.57	1.57	1.55	.00	1.55	
12773.	12.51	.53	1.56	1.54	.00	1.55	1.53	1.62	1.56	1.56	.00	1.55	
12802.	12.49	.55	1.56	1.54	.00	1.56	1.54	1.60	1.57	1.56	.00	1.55	
12845.	12.49	.61	1.56	1.54	.00	1.56	1.55	1.57	1.57	1.56	.00	1.55	
12884.	12.50	.51	1.56	1.54	.00	1.55	1.54	1.61	1.56	1.54	.00	1.55	
12916.	12.48	.58	1.56	1.54	.00	1.56	1.54	1.58	1.57	1.55	.00	1.55	
12951.	12.52	.55	1.55	1.54	.01	1.55	1.53	1.66	1.56	1.55	.00	1.55	
12980.	12.52	.48	1.60	1.56	.01	1.56	1.52	1.63	1.55	1.52	.00	1.54	
12994.	12.49	.54	1.57	1.55	.01	1.56	1.54	1.63	1.57	1.55	.00	1.55	
13026.	12.50	.57	1.56	1.54	.01	1.56	1.54	1.61	1.57	1.55	.00	1.55	

PACK NO. 50
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.50	1	2	3	4	5	6	7	8	9	10	
12524.	10.45	2.51	1.08	1.19	1.16	1.09	.00	1.19	1.19	1.19	1.19	1.18	END OF DISCHARGE
12552.	10.39	2.51	1.07	1.18	1.14	1.08	.00	1.18	1.18	1.18	1.18	1.17	
12589.	10.41	2.50	1.07	1.18	1.15	1.09	.00	1.18	1.18	1.18	1.18	1.18	
12620.	10.41	2.50	1.07	1.18	1.14	1.09	.00	1.18	1.19	1.18	1.18	1.17	
12653.	10.39	2.50	1.07	1.18	1.14	1.09	.00	1.18	1.18	1.18	1.18	1.17	
12713.	10.40	2.51	1.07	1.19	1.12	1.09	.00	1.18	1.19	1.18	1.19	1.17	
12764.	10.28	2.49	1.05	1.17	1.11	1.07	.00	1.17	1.17	1.17	1.17	1.16	
12793.	10.33	2.50	1.07	1.18	1.10	1.09	.00	1.18	1.18	1.18	1.18	1.17	
12836.	10.38	2.50	1.08	1.18	1.11	1.09	.00	1.18	1.18	1.18	1.18	1.17	
12876.	10.38	2.50	1.08	1.17	1.15	1.08	.00	1.17	1.18	1.17	1.18	1.17	
12907.	10.36	2.51	1.06	1.17	1.14	1.08	.00	1.17	1.18	1.17	1.17	1.17	
12942.	10.38	2.51	1.06	1.18	1.14	1.08	.00	1.18	1.18	1.17	1.18	1.17	
12972.	10.30	2.51	1.06	1.18	1.14	1.08	.00	1.18	1.18	1.18	1.19	1.18	
13031.	10.36	2.50	1.07	1.18	1.13	1.08	.00	1.17	1.18	1.17	1.18	1.17	
		1.44											
12524.	13.98	.68	1.55	1.50	1.55	1.54	.00	1.56	1.49	1.57	1.50	1.67	END OF CHARGE
12552.	13.99	.71	1.55	1.50	1.54	1.54	.00	1.56	1.49	1.57	1.50	1.67	
12589.	13.99	.66	1.55	1.50	1.54	1.54	.00	1.56	1.49	1.57	1.50	1.68	
12620.	14.00	.68	1.55	1.51	1.53	1.54	.00	1.56	1.50	1.58	1.51	1.68	
12653.	13.99	.68	1.55	1.51	1.53	1.54	.00	1.56	1.50	1.57	1.50	1.68	
12713.	13.97	.73	1.55	1.50	1.54	1.54	.00	1.56	1.49	1.57	1.50	1.66	
12764.	14.00	.68	1.55	1.50	1.50	1.54	.00	1.57	1.49	1.59	1.50	1.68	
12793.	13.97	.66	1.55	1.50	1.49	1.54	.00	1.57	1.50	1.58	1.50	1.68	
12836.	13.97	.71	1.55	1.50	1.50	1.54	.00	1.57	1.50	1.57	1.51	1.68	
12876.	13.97	.68	1.54	1.49	1.55	1.53	.00	1.55	1.49	1.56	1.50	1.68	
12907.	13.97	.67	1.54	1.49	1.55	1.53	.00	1.55	1.49	1.56	1.50	1.68	
12942.	13.99	.67	1.54	1.50	1.54	1.53	.00	1.56	1.49	1.57	1.50	1.68	
12972.	13.99	.66	1.54	1.49	1.54	1.53	.00	1.57	1.49	1.59	1.50	1.69	
13031.	13.97	.71	1.54	1.50	1.53	1.53	.00	1.56	1.50	1.57	1.51	1.68	

PACK NO. 53
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES										
			1	2	3	4	5	6	7	8	9	10	
6229.	12.28	1.50	1.20	1.22	1.23	1.24	1.24	1.23	1.23	1.22	1.23	1.22	END OF DISCHARGE
6261.	12.26	1.50	1.20	1.22	1.23	1.24	1.23	1.22	1.23	1.22	1.22	1.22	
6314.	12.20	1.52	1.19	1.21	1.23	1.23	1.23	1.23	1.22	1.21	1.22	1.21	
6339.	12.22	1.52	1.20	1.21	1.23	1.23	1.23	1.22	1.22	1.21	1.22	1.21	
6375.	12.18	1.53	1.21	1.22	1.24	1.25	1.25	1.24	1.24	1.23	1.24	1.23	
6417.	12.20	1.51	1.19	1.21	1.23	1.23	1.24	1.22	1.23	1.21	1.22	1.21	
		.35											
6229.	15.79	.22	1.51	1.54	1.59	1.64	1.59	1.52	1.62	1.67	1.56	1.51	END OF CHARGE
6261.	15.86	.19	1.50	1.54	1.60	1.64	1.58	1.51	1.63	1.66	1.57	1.60	
6314.	15.80	.23	1.51	1.54	1.61	1.64	1.59	1.51	1.64	1.66	1.56	1.49	
6339.	15.78	.21	1.51	1.54	1.59	1.63	1.57	1.51	1.62	1.66	1.58	1.54	
6375.	15.83	.23	1.50	1.53	1.60	1.63	1.59	1.51	1.63	1.66	1.57	1.53	
6417.	15.75	.22	1.51	1.55	1.58	1.62	1.57	1.51	1.63	1.66	1.60	1.50	

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PACK NO. 54
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 2.50	1	2	3	4	5	6	7	8	9	10	
6152.	11.54	2.51	1.18	1.15	.93	1.15	1.19	1.19	1.17	1.18	1.20	1.19	END OF DISCHARGE
6184.	11.52	2.52	1.18	1.15	.92	1.15	1.20	1.19	1.17	1.18	1.19	1.19	
6216.	11.49	2.52	1.17	1.15	.91	1.14	1.19	1.18	1.17	1.18	1.19	1.19	
6294.	11.48	2.51	1.17	1.14	.92	1.15	1.19	1.18	1.17	1.18	1.19	1.19	
6330.	11.45	2.51	1.17	1.14	.91	1.15	1.19	1.18	1.17	1.17	1.19	1.19	
6338.	11.69	2.53	1.18	1.16	1.00	1.16	1.20	1.19	1.18	1.18	1.19	1.19	
		.58											
6152.	15.44	.27	1.49	1.51	1.55	1.50	1.51	1.57	1.65	1.64	1.50	1.48	END OF CHARGE
6184.	15.42	.29	1.50	1.51	1.56	1.51	1.52	1.56	1.60	1.62	1.50	1.49	
6216.	15.42	.29	1.50	1.51	1.56	1.51	1.52	1.56	1.62	1.61	1.50	1.49	
6294.	15.42	.34	1.50	1.51	1.57	1.51	1.52	1.57	1.61	1.60	1.51	1.49	
6330.	15.45	.32	1.49	1.49	1.56	1.50	1.52	1.56	1.61	1.59	1.50	1.49	
6338.	14.33	.57	1.43	1.43	1.44	1.43	1.43	1.43	1.43	1.42	1.43	1.42	

PACK NO. 5
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 2.50	1	2	3	4	5	6	7	8	9	10	
6073.	9.39	2.43	1.16	.00	.00	1.18	1.17	1.17	1.18	1.16	1.18	1.17	END OF DISCHARGE
6105.	9.37	2.49	1.16	.00	.00	1.18	1.17	1.17	1.17	1.16	1.17	1.17	
6183.	9.33	2.49	1.15	.00	.00	1.18	1.16	1.17	1.17	1.16	1.17	1.16	
6219.	9.28	2.50	1.16	.00	.00	1.19	1.19	1.18	1.19	1.17	1.19	1.19	
6251.	9.30	2.49	1.14	.00	.00	1.17	1.16	1.15	1.16	1.15	1.16	1.16	
6287.	9.30	2.49	1.15	.00	.00	1.17	1.17	1.16	1.17	1.16	1.16	1.16	
		.62											
6073.	11.44	.63	1.42	.00	.00	1.43	1.43	1.42	1.42	1.42	1.42	1.41	END OF CHARGE
6105.	11.50	.63	1.43	.00	.00	1.43	1.43	1.44	1.43	1.42	1.43	1.42	
6183.	11.54	.62	1.43	.00	.00	1.44	1.44	1.44	1.43	1.43	1.44	1.43	
6219.	11.51	.62	1.43	.00	.00	1.44	1.43	1.44	1.42	1.42	1.43	1.42	
6251.	11.50	.62	1.42	.00	.00	1.43	1.43	1.43	1.42	1.42	1.43	1.42	
6287.	11.57	.63	1.44	.00	.00	1.44	1.45	1.45	1.44	1.43	1.44	1.43	

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PACK NO. 29
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES										
			1	2	3	4	5	6	7	8	9	10	
5835.	-5.32	1.38	.00	1.16	1.18	1.16	.00	.72	.00	.00	.00	1.14	END OF DISCHARGE
5899.	5.41	1.32	.00	1.17	1.19	1.16	.00	.79	.00	.00	.00	1.12	
5975.	4.37	1.50	.00	1.17	1.18	1.19	.00	.25	.00	.00	.00	1.00	
5835.	6.99	.48	.00	1.40	1.39	1.39	.00	1.40	.00	.00	.00	1.41	END OF CHARGE
5899.	7.00	.48	.00	1.41	1.40	1.40	.00	1.40	.00	.00	.00	1.42	
5975.	6.96	.47	.00	1.40	1.39	1.40	.00	1.39	.00	.00	.00	1.41	

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PACK NO. 62
GULTON 6 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.00	1	2	3	4	5	6	7	8	9	10	
12221.	6.96	3.06	1.19	1.17	1.15	.00	.00	1.14	.00	1.16	1.18	.00	END OF DISCHARGE
12251.	6.90	3.03	1.19	1.16	1.13	.00	.00	1.13	.00	1.15	1.16	.00	
12288.	6.93	3.01	1.19	1.17	1.14	.00	.00	1.14	.00	1.15	1.17	.00	
12317.	6.92	3.01	1.19	1.17	1.14	.00	.00	1.13	.00	1.15	1.17	.00	
12352.	6.91	3.01	1.19	1.16	1.14	.00	.00	1.13	.00	1.15	1.16	.00	
12463.	6.85	3.01	1.18	1.16	1.13	.00	.00	1.12	.00	1.14	1.14	.00	
12535.	6.87	3.03	1.18	1.16	1.14	.00	.00	1.13	.00	1.14	1.15	.00	
12575.	6.88	2.99	1.19	1.16	1.13	.00	.00	1.13	.00	1.14	1.16	.00	
12606.	6.88	3.01	1.18	1.15	1.12	.00	.00	1.12	.00	1.14	1.15	.00	
12641.	6.88	3.01	1.18	1.16	1.12	.00	.00	1.13	.00	1.14	1.16	.00	
12671.	6.85	3.01	1.19	1.16	1.12	.00	.00	1.12	.00	1.14	1.17	.00	
12730.	6.85	3.01	1.18	1.16	1.12	.00	.00	1.12	.00	1.14	1.15	.00	
		1.72											
12221.	9.34	.70	1.54	1.58	1.57	.00	.00	1.62	.00	1.54	1.49	.00	END OF CHARGE
12251.	9.28	.74	1.54	1.57	1.56	.00	.00	1.59	.00	1.54	1.48	.00	
12288.	9.29	.65	1.54	1.57	1.57	.00	.00	1.60	.00	1.54	1.48	.00	
12317.	9.30	.66	1.54	1.58	1.57	.00	.00	1.61	.00	1.54	1.48	.00	
12352.	9.31	.64	1.54	1.58	1.57	.00	.00	1.62	.00	1.54	1.48	.00	
12463.	9.28	.66	1.54	1.58	1.56	.00	.00	1.59	.00	1.53	1.46	.00	
12535.	9.28	.66	1.53	1.58	1.56	.00	.00	1.61	.00	1.53	1.46	.00	
12575.	9.27	.63	1.52	1.58	1.54	.00	.00	1.62	.00	1.52	1.47	.00	
12606.	9.28	.60	1.52	1.58	1.55	.00	.00	1.62	.00	1.52	1.47	.00	
12641.	9.29	.62	1.52	1.59	1.55	.00	.00	1.61	.00	1.53	1.48	.00	
12671.	9.29	.62	1.52	1.59	1.54	.00	.00	1.63	.00	1.52	1.47	.00	
12730.	9.28	.64	1.53	1.58	1.55	.00	.00	1.61	.00	1.53	1.48	.00	

PACK NO: 65
GULTON 6 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 1.80	1	2	3	4	5	6	7	8	9	10	
6142.	9.73	1.84	1.23	1.24	1.23	.00	1.24	.00	1.19	1.21	1.24	1.13	END OF DISCHARGE
6174.	9.30	1.82	1.22	1.23	1.22	.00	1.19	.00	1.17	.92	1.23	1.11	
6186.	8.21	1.82	1.23	1.24	1.23	.00	1.24	.00	1.19	.28	1.25	1.13	
6192.	8.54	1.81	1.22	1.23	1.22	.00	1.26	.00	1.19	.00	1.24	1.17	
6228.	8.48	1.81	1.22	1.23	1.22	.00	1.25	.00	1.18	.00	1.24	1.16	
		.41											
6142.	12.54	.41	1.60	1.60	1.56	.00	1.56	.00	1.64	1.38	1.54	1.62	END OF CHARGE
6174.	12.76	.42	1.68	1.69	1.64	.00	1.38	.00	1.68	1.34	1.61	1.72	
6186.	12.46	.42	1.61	1.60	1.58	.00	1.45	.00	1.66	1.35	1.54	1.63	
6192.	10.98	.42	1.58	1.56	1.56	.00	1.40	.00	1.66	.00	1.52	1.64	
6228.	11.21	.40	1.64	1.61	1.61	.00	1.41	.00	1.69	.00	1.54	1.70	

PACK NO. 110
G.E. 12 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.60	1	2	3	4	5
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12345.	6.11	3.58	1.23	1.22	1.23	1.23	1.23
12380.	6.11	3.55	1.24	1.22	1.22	1.23	1.21
12411.	6.12	3.56	1.21	1.22	1.22	1.23	1.24
12444.	6.11	3.56	1.21	1.22	1.23	1.23	1.23
12503.	6.11	3.57	1.21	1.22	1.23	1.23	1.21
12555.	6.15	3.58	1.24	1.21	1.24	1.22	1.24
12584.	6.15	3.59	1.23	1.22	1.24	1.23	1.24
12627.	6.13	3.58	1.23	1.22	1.24	1.23	1.24
12666.	6.12	3.56	1.24	1.21	1.23	1.23	1.23
12698.	6.10	3.59	1.23	1.21	1.22	1.22	1.22
12762.	6.08	3.56	1.23	1.21	1.22	1.22	1.22
12776.	6.11	3.56	1.23	1.21	1.21	1.23	1.23
12808.	6.08	3.60	1.22	1.21	1.21	1.22	1.23

END OF
DISCHARGE

		2.07					
12345.	7.68	1.50	1.52	1.64	1.46	1.61	1.48
12380.	7.68	1.54	1.52	1.64	1.46	1.61	1.44
12411.	7.69	1.53	1.46	1.63	1.47	1.61	1.51
12444.	7.66	1.64	1.44	1.63	1.49	1.61	1.47
12503.	7.68	1.63	1.47	1.63	1.50	1.61	1.45
12555.	7.77	1.31	1.49	1.63	1.53	1.60	1.49
12584.	7.74	1.38	1.48	1.63	1.52	1.60	1.50
12627.	7.72	1.52	1.50	1.63	1.50	1.60	1.53
12666.	7.71	1.35	1.54	1.62	1.48	1.60	1.49
12698.	7.68	1.47	1.54	1.62	1.46	1.59	1.48
12762.	7.77	1.21	1.53	1.65	1.45	1.61	1.48
12776.	7.74	1.38	1.53	1.63	1.45	1.59	1.50
12808.	7.68	1.51	1.52	1.64	1.46	1.60	1.48

END OF
CHARGE

PACK NO. 124
G.E. 12 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES				
			1	2	3	4	5

12112.	5.76	5.99	1.18	1.18	1.04	1.18	1.17
12147.	5.78	5.99	1.19	1.19	1.06	1.19	1.17
12178.	5.76	5.99	1.18	1.19	1.05	1.19	1.17
12211.	5.77	5.98	1.19	1.19	1.06	1.19	1.17
12270.	5.76	5.98	1.18	1.19	1.04	1.19	1.17
12322.	5.78	5.90	1.19	1.19	1.06	1.19	1.17
12351.	5.78	5.92	1.19	1.19	1.06	1.19	1.17

END OF
DISCHARGE

12433.	5.78	5.89	1.18	1.18	1.04	1.18	1.17
12465.	5.79	5.88	1.18	1.18	1.04	1.18	1.16
12500.	5.77	5.89	1.18	1.18	1.03	1.19	1.17
12529.	5.74	5.00	1.18	1.18	1.02	1.18	1.16
12543.	5.71	5.92	1.17	1.18	1.02	1.18	1.17
12575.	5.72	5.92	1.18	1.18	1.01	1.18	1.16

3.45

12112.	7.79	1.35	1.56	1.51	1.61	1.49	1.60
12147.	7.79	1.24	1.57	1.51	1.63	1.49	1.61
12178.	7.79	1.25	1.57	1.51	1.62	1.49	1.61
12211.	7.79	1.25	1.57	1.51	1.62	1.49	1.61
12270.	7.80	1.27	1.57	1.51	1.62	1.49	1.63
12322.	7.79	1.29	1.57	1.51	1.62	1.50	1.59
12351.	7.79	1.21	1.57	1.51	1.63	1.50	1.61

END OF
CHARGE

12433.	7.80	1.23	1.56	1.52	1.62	1.49	1.58
12465.	7.79	1.22	1.56	1.50	1.62	1.49	1.59
12500.	7.81	1.23	1.57	1.51	1.62	1.50	1.58
12529.	7.81	1.12	1.55	1.50	1.63	1.48	1.60
12543.	7.78	1.22	1.56	1.51	1.62	1.49	1.59
12575.	7.80	1.23	1.56	1.51	1.62	1.49	1.60

96

PACK NO. 111
G.E. 12 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 3.60	1	2	3	4	5
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6130.	6.12	3.64	1.23	1.22	1.22	1.23	1.22
6162.	6.14	3.68	1.23	1.24	1.24	1.24	1.23
6194.	6.14	3.66	1.23	1.23	1.23	1.24	1.22
6267.	6.19	3.59	1.24	1.23	1.23	1.24	1.23
6335.	6.20	3.53	1.24	1.24	1.24	1.25	1.24

END OF
DISCHARGE

		.83					
6130.	7.68	.46	1.53	1.54	1.54	1.52	1.54
6162.	7.71	.34	1.58	1.54	1.55	1.51	1.55
6194.	7.75	.33	1.59	1.54	1.54	1.50	1.57
6267.	8.06	.83	1.63	1.59	1.60	1.56	1.60
6335.	8.01	.82	1.63	1.60	1.60	1.56	1.61

END OF
CHARGE

16

PACK NO. 125
G.E. 12 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	1	2	3	4	5
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CELL VOLTAGES

6150.	5.94	5.96	1.19	1.20	1.20	1.20	1.19
6182.	5.94	6.04	1.18	1.19	1.18	1.19	1.19
6214.	5.91	6.06	1.18	1.19	1.19	1.19	1.19
6292.	5.96	6.03	1.19	1.19	1.19	1.19	1.19
6328.	5.91	6.05	1.18	1.18	1.19	1.19	1.18

END OF
DISCHARGE

		1.38					
6150.	7.74	.38	1.59	1.58	1.61	1.51	1.50
6182.	7.78	.36	1.60	1.58	1.59	1.50	1.49
6214.	7.76	.35	1.60	1.59	1.61	1.51	1.49
6292.	7.84	.37	1.60	1.58	1.60	1.50	1.48
6328.	7.81	.34	1.58	1.58	1.60	1.49	1.47

END OF
CHARGE

26

PACK NO. 83
G.E. 12 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	1	2	3	4	5
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6163.	5.71	6.09	1.14	1.15	1.16	1.15	1.13
6195.	5.60	6.08	1.11	1.13	1.14	1.12	1.09
6227.	5.57	6.09	1.12	1.13	1.13	1.13	1.09
6305.	5.65	6.08	1.14	1.14	1.14	1.14	1.10
6341.	5.64	6.09	1.13	1.14	1.15	1.14	1.10
6373.	5.63	6.06	1.13	1.13	1.14	1.13	1.10
6408.	5.72	6.00	1.14	1.15	1.15	1.15	1.14

END OF
DISCHARGE

		1.50					
6163.	7.22	1.51	1.46	1.44	1.47	1.46	1.43
6195.	7.22	1.51	1.45	1.43	1.44	1.44	1.42
6227.	7.18	1.51	1.45	1.44	1.45	1.45	1.42
6305.	7.23	1.51	1.46	1.43	1.45	1.44	1.42
6341.	7.28	1.49	1.45	1.43	1.45	1.44	1.41
6373.	7.23	1.49	1.46	1.44	1.46	1.46	1.43
6408.	7.24	1.52	1.46	1.44	1.46	1.46	1.43

END OF
CHARGE

93

PACK NO. 86
G.E. 12 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 3.60	1	2	3	4	5
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5968.	5.65	3.62	1.15	1.12	1.13	1.14	1.12
6000.	5.64	3.61	1.14	1.13	1.14	1.14	1.12
6032.	5.64	3.62	1.14	1.12	1.12	1.13	1.12
6110.	5.62	3.53	1.14	1.12	1.14	1.14	1.12
6146.	5.62	3.57	1.14	1.11	1.11	1.13	1.12
6178.	5.60	3.46	1.13	1.11	1.11	1.12	1.11
6214.	5.57	3.59	1.13	1.11	1.11	1.12	1.12

END OF
DISCHARGE

		1.15					
5968.	7.09	1.09	1.42	1.41	1.43	1.42	1.41
6000.	7.09	1.00	1.42	1.42	1.44	1.43	1.41
6032.	7.11	1.04	1.42	1.42	1.43	1.42	1.41
6110.	7.00	1.11	1.40	1.40	1.42	1.41	1.39
6146.	7.09	.83	1.40	1.40	1.41	1.40	1.39
6178.	7.06	.67	1.40	1.40	1.41	1.41	1.40
6214.	7.06	.73	1.41	1.41	1.42	1.42	1.41

END OF
CHARGE

36

PACK NO. 84
GOULD 20 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	CELL VOLTAGES				
			1	2	3	4	5

12263.	6.17	5.93	1.24	1.23	1.22	1.23	1.25
12294.	6.14	6.00	1.23	1.23	1.22	1.23	1.23
12328.	6.14	5.96	1.24	1.24	1.24	1.23	1.24
12359.	6.00	5.96	1.24	1.24	1.23	1.23	1.23
12392.	6.13	5.97	1.24	1.23	1.24	1.23	1.23
12452.	6.12	6.05	1.24	1.24	1.22	1.23	1.23
12503.	6.11	6.00	1.23	1.22	1.21	1.22	1.23
12532.	6.13	5.93	1.23	1.23	1.23	1.23	1.24
12575.	6.13	5.96	1.23	1.23	1.23	1.23	1.24
12670.	6.11	5.91	1.22	1.23	1.20	1.22	1.22
12700.	6.03	6.00	1.21	1.22	1.21	1.22	1.22
12758.	6.10	6.04	1.22	1.23	1.22	1.23	1.23

END OF
DISCHARGE

		3.45					
12263.	7.88	2.65	1.58	1.58	1.58	1.57	1.57
12294.	7.87	2.63	1.57	1.58	1.58	1.57	1.56
12328.	7.85	2.61	1.57	1.59	1.59	1.57	1.55
12359.	7.84	2.69	1.57	1.59	1.59	1.57	1.54
12392.	7.84	2.67	1.57	1.59	1.59	1.58	1.55
12452.	7.82	2.72	1.55	1.59	1.58	1.56	1.57
12503.	7.98	2.59	1.56	1.58	1.58	1.56	1.56
12532.	7.86	2.55	1.57	1.59	1.59	1.57	1.58
12575.	7.83	2.67	1.56	1.58	1.59	1.57	1.56
12670.	7.96	2.34	1.61	1.58	1.61	1.57	1.56
12700.	7.95	2.05	1.60	1.62	1.61	1.52	1.57
12758.	7.83	2.62	1.58	1.58	1.58	1.56	1.56

END OF
CHARGE

PACK NO. 80
GOULD 20 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	1	2	3	4	5
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6135.	6.11	6.15	1.25	1.22	1.18	1.26	1.24
6167.	6.12	6.08	1.25	1.22	1.19	1.26	1.24
6220.	6.11	5.99	1.25	1.22	1.19	1.26	1.24
6245.	6.12	6.01	1.25	1.22	1.19	1.26	1.24
6281.	6.09	6.03	1.26	1.23	1.20	1.27	1.25
6313.	6.08	6.07	1.24	1.21	1.17	1.25	1.23
6349.	6.08	6.03	1.24	1.22	1.18	1.25	1.23

END OF
DISCHARGE

		1.38					
6135.	7.78	1.21	1.53	1.58	1.58	1.56	1.56
6167.	7.78	1.23	1.53	1.58	1.58	1.56	1.56
6220.	7.77	1.24	1.53	1.58	1.58	1.56	1.55
6245.	7.76	1.30	1.53	1.58	1.58	1.56	1.54
6281.	7.79	1.27	1.52	1.58	1.57	1.55	1.54
6313.	7.68	1.12	1.52	1.56	1.56	1.54	1.52
6349.	7.71	1.19	1.52	1.57	1.57	1.55	1.53

END OF
CHARGE

96

PACK NO. 94
GOULD 20 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 10.00	1	2	3	4	5
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6019.	5.82	10.20	1.20	1.18	1.11	1.18	1.15
6051.	5.82	10.16	1.20	1.18	1.12	1.18	1.15
6104.	5.82	10.09	1.20	1.18	1.12	1.18	1.15
6129.	5.85	10.11	1.21	1.18	1.13	1.19	1.16
6165.	5.90	10.11	1.22	1.19	1.14	1.20	1.19
6197.	5.85	10.15	1.20	1.17	1.13	1.18	1.17
6233.	5.85	10.02	1.20	1.18	1.14	1.19	1.16

END OF
DISCHARGE

2.30

6019.	7.64	1.12	1.49	1.49	1.58	1.56	1.50
6051.	7.64	1.12	1.49	1.49	1.58	1.56	1.50
6104.	7.63	1.14	1.40	1.49	1.58	1.55	1.50
6129.	7.64	1.14	1.49	1.49	1.58	1.55	1.51
6165.	7.63	1.06	1.48	1.47	1.57	1.54	1.49
6197.	7.65	1.02	1.48	1.48	1.58	1.56	1.52
6233.	7.64	1.10	1.49	1.49	1.58	1.56	1.50

END OF
CHARGE

47

PACK NO. 102
GULTON 20 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	1	2	3	4	5
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5963.	4.82	6.07	1.20	.00	1.20	1.24	1.21
5995.	4.85	6.00	1.21	.00	1.21	1.24	1.21
6048.	4.84	5.93	1.21	.00	1.21	1.24	1.21
6073.	4.84	5.94	1.21	.00	1.21	1.24	1.21
6109.	4.80	5.92	1.22	.00	1.22	1.26	1.23
6141.	4.82	5.93	1.20	.00	1.20	1.23	1.21
6177.	4.81	5.99	1.20	.00	1.20	1.24	1.21

END OF
DISCHARGE

		1.38					
5963.	6.30	1.39	1.62	.00	1.60	1.53	1.57
5995.	6.26	1.38	1.60	.00	1.59	1.53	1.56
6048.	6.26	1.37	1.59	.00	1.59	1.53	1.56
6073.	6.22	1.37	1.58	.00	1.58	1.53	1.55
6109.	6.23	1.36	1.57	.00	1.56	1.51	1.54
6141.	6.21	1.37	1.58	.00	1.57	1.52	1.55
6177.	6.23	1.38	1.59	.00	1.58	1.53	1.56

END OF
CHARGE

88

PACK NO. 116
GULTON 20 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 10.00	1	2	3	4	5
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5807.	5.74	9.77	1.14	1.17	1.10	1.19	1.15
5839.	5.72	9.90	1.13	1.16	1.10	1.18	1.15
5892.	5.73	9.84	1.15	1.00	1.10	1.18	1.15
5917.	5.74	9.83	1.15	1.17	1.10	1.18	1.15
5953.	5.81	9.84	1.17	1.18	1.11	1.21	1.18
5985.	5.73	9.83	1.14	1.16	1.09	1.17	1.14
6021.	5.72	9.92	1.13	1.17	1.10	1.18	1.14

END OF
DISCHARGE

		2.30					
5807.	7.84	1.66	1.44	1.62	1.56	1.65	1.55
5839.	7.85	1.64	1.45	1.63	1.56	1.65	1.55
5892.	7.85	1.59	1.45	1.63	1.57	1.65	1.55
5917.	7.83	1.71	1.45	1.62	1.56	1.63	1.55
5953.	7.82	1.66	1.44	1.60	1.55	1.63	1.53
5985.	7.82	1.69	1.44	1.63	1.56	1.63	1.55
6021.	7.83	1.59	1.44	1.63	1.57	1.65	1.54

END OF
CHARGE

66

PACK NO. 77
GULTON 20 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40
ORBIT PERIOD 3 HOURS

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	1	2	3	4	5
5901.	3.23	6.04	.00	.00	1.13	1.15	1.03
5933.	3.19	6.02	.00	.00	1.12	1.14	1.02
6011.	3.12	5.97	.00	.00	1.11	1.12	.98
6032.	2.22	5.65	.00	.00	1.17	.08	1.16
		1.92					
5901.	4.27	1.14	.00	.00	1.45	1.43	1.40
5933.	4.24	1.01	.00	.00	1.45	1.43	1.40
6011.	4.20	1.09	.00	.00	1.43	1.42	1.38
6032.	2.91	1.90	.00	.00	1.46	.03	1.42

END OF
DISCHARGE

END OF
CHARGE

100

PACK NO. 103
G.E. 5 A.H. NIMBUS

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 110

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	1	2	3	4	5
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5209.	6.18	1.50	1.24	1.22	1.24	1.25	1.24
5240.	6.18	1.51	1.23	1.22	1.23	1.25	1.24
5274.	6.16	1.50	1.23	1.21	1.25	1.26	1.24
5305.	6.16	1.50	1.23	1.22	1.25	1.26	1.24
5338.	6.16	1.50	1.23	1.22	1.25	1.26	1.24
5398.	6.15	1.52	1.23	1.22	1.24	1.26	1.24
5449.	6.15	1.51	1.22	1.21	1.23	1.25	1.23
5478.	6.14	1.49	1.23	1.21	1.24	1.25	1.24
5521.	6.15	1.50	1.23	1.22	1.25	1.25	1.24
5561.	6.15	1.49	1.23	1.21	1.23	1.24	1.23
5615.	6.25	1.49	1.24	1.24	1.24	1.26	1.25
5645.	6.21	1.49	1.24	1.25	1.25	1.26	1.26

END OF
DISCHARGE

101

		.83					
5209.	7.41	.47	1.51	1.43	1.55	1.44	1.50
5240.	7.43	.47	1.50	1.42	1.54	1.45	1.49
5274.	7.41	.45	1.50	1.42	1.56	1.47	1.49
5305.	7.41	.47	1.50	1.42	1.56	1.47	1.49
5338.	7.41	.46	1.50	1.42	1.56	1.47	1.49
5398.	7.39	.48	1.49	1.42	1.55	1.46	1.49
5449.	7.44	.46	1.50	1.41	1.54	1.46	1.49
5478.	7.41	.44	1.50	1.42	1.56	1.47	1.49
5521.	7.41	.46	1.50	1.42	1.56	1.47	1.49
5561.	7.41	.47	1.49	1.42	1.54	1.46	1.49
5615.	7.82	.64	1.57	1.54	1.59	1.56	1.53
5645.	7.78	.67	1.56	1.53	1.59	1.55	1.52

END OF
CHARGE

PACK NO. 107
G.E. 5 A.H. NIMBUS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 110

TEST TEMPERATURE 0
ORBIT PERIOD 90 MIN

CYCLE PACK CURRENT
NO. VOLTAGES 2.50

CELL VOLTAGES

PSIA

			1	2	3	4	5	
4562.	5.95	2.46	1.19	1.19	1.20	1.20	1.20	33.738
4592.	5.93	2.47	1.19	1.19	1.20	1.19	1.19	32.122
4627.	5.93	2.46	1.19	1.18	1.20	1.19	1.19	30.591
4658.	5.92	2.22	1.19	1.18	1.20	1.19	1.19	29.392
4691.	5.90	2.53	1.18	1.18	1.19	1.19	1.18	27.776
4766.	5.98	2.48	1.20	1.20	1.21	1.20	1.20	26.872
4832.	5.91	2.48	1.19	1.18	1.20	1.19	1.19	24.257
4875.	5.92	2.47	1.19	1.18	1.20	1.19	1.20	22.992
4918.	5.90	2.50	1.18	1.17	1.19	1.18	1.18	22.146
4970.	6.09	2.48	1.22	1.21	1.22	1.22	1.22	96.029
5039.	6.06	2.47	1.21	1.21	1.21	1.22	1.22	93.499

END OF
DISCHARGE

		1.38						
4562.	7.31	.69	1.48	1.45	1.47	1.47	1.49	34.252
4592.	7.31	.72	1.47	1.45	1.46	1.47	1.48	32.588
4627.	7.31	.72	1.48	1.45	1.47	1.46	1.48	30.990
4658.	7.31	1.36	1.48	1.44	1.47	1.47	1.48	29.773
4691.	7.30	.77	1.48	1.44	1.46	1.46	1.48	28.308
4766.	7.31	.67	1.49	1.44	1.47	1.47	1.48	27.186
4832.	7.30	.76	1.48	1.44	1.46	1.46	1.48	24.647
4875.	7.29	.75	1.48	1.44	1.46	1.46	1.48	23.468
4918.	7.29	.74	1.48	1.44	1.46	1.46	1.47	21.870
4970.	7.89	1.08	1.60	1.57	1.57	1.57	1.59	96.029
5039.	7.78	.99	1.58	1.56	1.54	1.55	1.58	96.029

END OF
CHARGE

PACK NO. 106
G.E. 5 A.H. NIMBUS

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 120

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE	PACK	CURRENT	CELL VOLTAGES				
5229.	6.09	1.48	1.22	1.22	1.23	1.23	1.22
5255.	6.04	1.49	1.21	1.21	1.22	1.22	1.22
5294.	6.07	1.48	1.21	1.22	1.23	1.23	1.22
5325.	6.06	1.48	1.22	1.22	1.22	1.23	1.22
5358.	6.06	1.48	1.21	1.22	1.22	1.23	1.22
5433.	6.08	1.48	1.22	1.22	1.24	1.22	1.22
5469.	6.07	1.47	1.21	1.22	1.22	1.22	1.23
5499.	6.08	1.47	1.22	1.22	1.23	1.23	1.23
5542.	6.08	1.47	1.22	1.22	1.23	1.23	1.23
5581.	6.06	1.46	1.21	1.21	1.22	1.22	1.23
5600.	6.12	1.50	1.23	1.23	1.23	1.23	1.23
5642.	6.10	1.49	1.22	1.23	1.22	1.23	1.23
5674.	6.09	1.48	1.21	1.22	1.23	1.23	1.23
		.90					
5229.	7.13	.90	1.43	1.43	1.42	1.44	1.43
5255.	7.10	.91	1.42	1.43	1.41	1.43	1.42
5294.	7.13	.90	1.43	1.43	1.42	1.44	1.43
5325.	7.13	.90	1.43	1.43	1.42	1.44	1.43
5358.	7.13	.90	1.43	1.43	1.42	1.44	1.43
5433.	7.11	.90	1.43	1.43	1.42	1.43	1.42
5469.	7.11	.90	1.42	1.43	1.42	1.43	1.42
5499.	7.15	.90	1.43	1.43	1.43	1.44	1.43
5542.	7.14	.90	1.43	1.43	1.43	1.44	1.43
5581.	7.13	.90	1.43	1.43	1.42	1.43	1.43
5600.	7.13	.90	1.43	1.43	1.42	1.43	1.43
5642.	7.12	.90	1.43	1.43	1.41	1.43	1.43
5674.	7.12	.89	1.43	1.43	1.42	1.43	1.43

END OF
DISCHARGE

END OF
CHARGE

103

PACK NO. 304
G.E. 5 A.H. NIMBUS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 120

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN

CYCLE PACK CURRENT
NO. VOLTAGES 2.50 1 2 3 4 5 PSIA

4532.	5.53	2.43	1.14	1.14	1.15	.99	1.14	11.652
4562.	5.49	2.12	1.14	1.13	1.14	.96	1.13	11.757
4597.	5.55	2.44	1.14	1.13	1.15	1.03	1.13	12.075
4628.	5.52	2.45	1.14	1.13	1.15	1.00	1.13	12.032
4661.	5.50	2.45	1.14	1.13	1.14	.99	1.12	12.032
4736.	5.47	2.47	1.12	1.10	1.14	1.04	1.10	12.814
4802.	5.58	2.48	1.14	1.13	1.14	1.06	1.13	12.423
4845.	5.55	2.48	1.15	1.14	1.14	1.02	1.14	12.339
4888.	5.43	2.48	1.13	1.12	1.13	.94	1.12	11.853
4929.	5.57	2.48	1.14	1.14	1.14	1.07	1.14	12.571
4972.	5.51	2.46	1.14	1.14	1.13	1.00	1.12	12.666

END OF
DISCHARGE

101	4532.	7.30	1.50	1.47	1.46	1.51	1.44	1.46	12.550
	4562.	7.27	1.17	1.46	1.46	1.50	1.44	1.45	12.635
	4597.	7.30	1.51	1.46	1.46	1.51	1.44	1.45	13.089
	4628.	7.30	1.51	1.46	1.46	1.51	1.44	1.46	12.984
	4661.	7.30	1.51	1.46	1.46	1.51	1.44	1.45	12.910
	4736.	7.26	1.50	1.46	1.46	1.50	1.43	1.45	13.766
	4802.	7.32	1.51	1.47	1.46	1.51	1.44	1.46	13.533
	4845.	7.32	1.51	1.47	1.46	1.52	1.44	1.46	12.931
	4888.	7.27	1.50	1.46	1.45	1.50	1.43	1.45	12.614
4929.	7.30	1.52	1.46	1.45	1.50	1.44	1.45	13.618	
4972.	7.32	1.52	1.47	1.46	1.51	1.45	1.46	13.417	

END OF
CHARGE

PACK NO. 114
G.E. 5 A.H. NIMBUS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 130

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN

CYCLE PACK CURRENT
 NO. VOLTAGES 2.50 1 2 3 4 5 PSIA

4501.	5.49	2.45	1.09	1.12	1.11	1.12	1.08	38.106
4531.	5.75	2.47	1.14	1.17	1.16	1.16	1.15	38.330
4566.	5.46	2.46	1.10	1.11	1.09	1.11	1.07	38.459
4597.	5.45	2.46	1.09	1.12	1.06	1.11	1.09	38.748
4630.	5.40	2.46	1.06	1.12	1.03	1.12	1.10	38.994
4705.	5.51	2.45	1.13	1.12	1.09	1.08	1.13	39.176
4771.	5.26	2.48	1.05	1.11	.97	1.10	1.05	39.967
4814.	5.52	2.48	1.11	1.12	1.07	1.14	1.11	39.711
4857.	5.39	2.50	1.09	1.11	1.01	1.09	1.10	39.967
4872.	5.38	2.54	1.06	1.09	1.10	1.03	1.10	39.989
4898.	5.37	2.49	1.06	1.12	1.06	1.09	1.10	41.112
4941.	5.45	2.48	1.08	1.12	1.08	1.10	1.09	40.577

END OF
DISCHARGE

105

		1.63						
4501.	7.24	1.64	1.45	1.48	1.46	1.45	1.45	41.604
4531.	7.24	1.64	1.44	1.48	1.45	1.45	1.45	41.091
4566.	7.25	1.64	1.45	1.48	1.45	1.45	1.45	41.669
4597.	7.25	1.65	1.45	1.48	1.45	1.45	1.45	42.129
4630.	7.25	1.64	1.45	1.48	1.45	1.45	1.45	42.503
4705.	7.25	1.64	1.45	1.49	1.45	1.45	1.45	41.497
4771.	7.22	1.64	1.44	1.47	1.44	1.45	1.45	42.921
4814.	7.28	1.64	1.45	1.49	1.45	1.46	1.46	42.921
4857.	7.26	1.65	1.45	1.49	1.45	1.45	1.45	42.300
4872.	7.26	1.63	1.44	1.48	1.45	1.44	1.45	40.930
4898.	7.28	1.65	1.44	1.49	1.43	1.44	1.45	42.279
4941.	7.25	1.64	1.44	1.49	1.44	1.45	1.45	42.760

END OF
CHARGE

PACK NO. 117
GULTON 5 A.H. NIMBUS

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 110

TEST TEMPERATURE 0
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	1	2	3	4	5	CELL VOLTAGES
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5003.	6.16	1.49	1.24	1.23	1.25	1.24	1.23	
5034.	6.15	1.50	1.24	1.23	1.24	1.24	1.23	
5068.	6.15	1.49	1.24	1.22	1.23	1.24	1.23	
5099.	6.14	1.50	1.23	1.22	1.23	1.23	1.23	
5132.	6.14	1.49	1.24	1.22	1.22	1.23	1.23	
5192.	6.15	1.50	1.23	1.22	1.22	1.24	1.22	
5243.	5.97	1.48	1.23	1.22	1.24	1.23	1.08	

END OF
DISCHARGE

5315.	5.67	1.49	1.23	1.22	1.22	1.23	.77	
5355.	6.09	1.49	1.23	1.21	1.23	1.23	1.22	
5409.	6.16	1.49	1.24	1.23	1.24	1.24	1.22	
5439.	6.16	1.49	1.24	1.23	1.23	1.24	1.23	
5498.	6.14	1.50	1.24	1.23	1.23	1.24	1.21	

901

5003.	7.41	.83 .51	1.49	1.48	1.53	1.48	1.47	
5034.	7.41	.50	1.49	1.48	1.52	1.48	1.47	
5068.	7.42	.48	1.49	1.47	1.51	1.47	1.47	
5099.	7.43	.51	1.49	1.47	1.51	1.47	1.47	
5132.	7.43	.50	1.49	1.47	1.51	1.47	1.47	
5192.	7.42	.50	1.48	1.47	1.52	1.47	1.47	
5243.	7.46	.49	1.48	1.47	1.52	1.47	1.52	

END OF
CHARGE

5315.	7.69	.50	1.48	1.47	1.51	1.47	1.74	
5355.	7.39	.51	1.48	1.47	1.52	1.47	1.47	
5409.	7.72	.73	1.55	1.52	1.60	1.52	1.53	
5439.	7.71	.75	1.54	1.51	1.59	1.51	1.51	
5498.	7.71	.75	1.54	1.56	1.61	1.55	1.52	

PACK NO. 121
GULTON 5 A.H. NIMBUS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 110

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN

CYCLE PACK CURRENT
NO. VOLTAGES 2 50 1 2 3 4 5 PSIA

4564.	6.96	1.37	1.40	1.40	1.40	1.40	1.39	12.280
4594.	.04	.01	.00	.00	.00	.00	.01	-0.542
4629.	5.89	2.48	1.17	1.18	1.19	1.19	1.18	12.291
4660.	5.89	2.48	1.17	1.18	1.19	1.19	1.18	12.315
4693.	5.88	2.48	1.17	1.18	1.19	1.19	1.18	12.397
4768.	5.93	2.48	1.19	1.19	1.20	1.20	1.19	12.701
4834.	5.88	2.48	1.17	1.18	1.18	1.19	1.18	12.514
4877.	5.88	2.49	1.17	1.18	1.19	1.19	1.19	12.549
4920.	5.85	2.49	1.16	1.17	1.18	1.18	1.17	12.502
4998.	5.82	2.48	1.16	1.17	1.17	1.18	1.18	-0.764
5041.	5.89	2.47	1.17	1.19	1.18	1.19	1.18	11.624

END OF
DISCHARGE

107

		1.38						
4564.	6.75	1.37	1.35	1.36	1.36	1.36	1.34	12.280
4594.	7.42	.78	1.46	1.50	1.51	1.48	1.50	12.631
4629.	7.42	.75	1.45	1.49	1.52	1.49	1.49	12.701
4660.	7.42	.77	1.46	1.50	1.52	1.49	1.49	12.748
4693.	7.41	.78	1.45	1.50	1.52	1.49	1.50	12.795
4768.	7.43	.72	1.46	1.50	1.52	1.49	1.50	13.099
4834.	7.41	.78	1.45	1.49	1.52	1.49	1.50	12.888
4877.	7.41	.78	1.46	1.49	1.51	1.49	1.50	12.924
4920.	7.40	.78	1.45	1.49	1.51	1.48	1.49	12.877
4998.	7.26	.84	1.44	1.46	1.47	1.45	1.42	1.600
5041.	7.24	.76	1.44	1.48	1.50	1.48	1.37	11.917

END OF
CHARGE

PACK NO. 120
GULTON 5 A.H. NIMBUS

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 120

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	1	2	3	4	5
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5104.	5.97	1.51	1.24	1.05	1.23	1.24	1.22
5130.	5.92	1.51	1.23	1.04	1.22	1.23	1.21
5169.	5.95	1.49	1.24	1.04	1.23	1.24	1.22
5200.	5.94	1.50	1.23	1.04	1.22	1.24	1.22
5233.	5.94	1.49	1.23	1.04	1.22	1.24	1.22
5313.	5.92	1.50	1.23	1.03	1.22	1.23	1.21
5344.	5.92	1.51	1.23	1.03	1.21	1.23	1.21
5374.	5.95	1.48	1.24	1.04	1.22	1.24	1.22
5417.	5.94	1.49	1.24	1.04	1.22	1.23	1.22
5456.	5.93	1.49	1.24	1.03	1.22	1.23	1.22
5524.	5.92	1.50	1.23	1.03	1.22	1.23	1.21
5554.	5.90	1.49	1.22	1.02	1.22	1.23	1.21
5586.	5.92	1.48	1.23	1.03	1.22	1.23	1.21

END OF
DISCHARGE

		.90					
5104.	7.32	.92	1.44	1.55	1.43	1.44	1.44
5130.	7.28	.92	1.43	1.54	1.43	1.44	1.43
5169.	7.31	.91	1.43	1.55	1.43	1.45	1.44
5200.	7.31	.91	1.43	1.55	1.43	1.44	1.44
5233.	7.31	.91	1.43	1.55	1.43	1.44	1.44
5313.	7.28	.91	1.42	1.54	1.43	1.45	1.44
5344.	7.28	.92	1.42	1.54	1.42	1.44	1.44
5374.	7.33	.91	1.44	1.55	1.43	1.45	1.45
5417.	7.32	.91	1.44	1.55	1.43	1.45	1.45
5456.	7.32	.91	1.43	1.54	1.43	1.44	1.44
5524.	7.29	.92	1.42	1.53	1.42	1.44	1.44
5554.	7.30	.91	1.42	1.55	1.43	1.45	1.44
5586.	7.33	.91	1.42	1.56	1.43	1.45	1.44

END OF
CHARGE

PACK NO. 318
GULTON 5 A.H. NIMBUS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 120

TEST TEMPERATURE 25
ORBIT PERIOD 90 MIN

CYCLE NO.	PACK VOLTAGES	CURRENT 2.50	1	2	3	CELL VOLTAGES 4	5	PSIA
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4483.	5.47	2.45	1.11	1.10	1.15	1.02	1.11	11.423
4513.	5.39	2.45	1.10	1.10	1.14	.96	1.11	11.668
4548.	5.40	2.45	1.09	1.09	1.14	.99	1.11	11.411
4579.	5.37	2.45	1.07	1.08	1.14	.99	1.11	11.259
4612.	5.32	2.45	1.06	1.07	1.13	.98	1.11	11.341
4687.	5.20	2.44	1.04	1.01	1.13	.97	1.08	9.415
4753.	5.46	2.44	1.11	1.11	1.11	1.04	1.12	11.341

END OF
DISCHARGE

4839.	5.41	2.45	1.13	1.10	1.10	.98	1.11	11.166
4891.	4.30	2.48	1.14	.07	1.17	1.05	1.01	11.574
4917.	4.36	2.47	1.15	.00	1.18	1.07	1.06	12.835
4960.	4.41	2.47	1.15	.00	1.17	1.06	1.05	13.430

101

4483.	7.35	1.50	1.51	1.47	1.46	1.48	1.50	1.46	21.564
4513.	7.31	1.51	1.51	1.47	1.46	1.47	1.50	1.46	22.346
4548.	7.34	1.51	1.51	1.47	1.46	1.47	1.50	1.46	22.019
4579.	7.34	1.51	1.51	1.47	1.46	1.47	1.50	1.46	21.891
4612.	7.33	1.51	1.51	1.47	1.46	1.47	1.50	1.46	21.867
4687.	7.33	1.50	1.50	1.46	1.46	1.47	1.50	1.46	18.705
4753.	7.34	1.50	1.50	1.48	1.46	1.47	1.50	1.47	22.054

END OF
CHARGE

4839.	7.31	1.51	1.51	1.47	1.45	1.46	1.49	1.46	22.486
4891.	6.00	1.55	1.55	1.47	.03	1.47	1.50	1.53	22.602
4917.	5.94	1.33	1.33	1.47	.00	1.46	1.49	1.51	21.272
4960.	5.94	1.21	1.21	1.48	.00	1.48	1.49	1.51	20.257

PACK NO. 127
GULTON 5 A.H. NIMBUS

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 130

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	1	2	3	4	5
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5149.	5.78	1.46	1.15	1.15	1.18	1.18	1.15
5175.	5.73	1.48	1.14	1.14	1.17	1.17	1.14
5214.	5.77	1.47	1.15	1.14	1.18	1.18	1.15
5245.	5.77	1.47	1.15	1.15	1.17	1.18	1.15
5278.	5.76	1.47	1.15	1.15	1.17	1.18	1.15
5353.	5.81	1.48	1.17	1.16	1.19	1.19	1.16
5462.	5.76	1.46	1.15	1.14	1.17	1.17	1.15
5501.	5.78	1.44	1.16	1.15	1.17	1.18	1.16
5563.	5.73	1.48	1.14	1.13	1.15	1.17	1.13
5580.	5.78	1.48	1.15	1.14	1.15	1.17	1.15
5594.	5.74	1.49	1.14	1.14	1.15	1.17	1.15
5626.	5.77	1.49	1.15	1.14	1.16	1.17	1.15

END OF
DISCHARGE

011

		.98					
5149.	7.15	1.00	1.43	1.44	1.43	1.43	1.42
5175.	7.13	.99	1.43	1.44	1.43	1.43	1.42
5214.	7.15	.99	1.43	1.44	1.43	1.43	1.42
5245.	7.16	.99	1.43	1.44	1.43	1.43	1.42
5278.	7.15	.99	1.43	1.44	1.43	1.43	1.42
5353.	7.12	.99	1.42	1.44	1.43	1.43	1.42
5462.	7.17	.99	1.43	1.44	1.44	1.43	1.43
5501.	7.14	.99	1.43	1.43	1.43	1.43	1.42
5563.	7.15	1.00	1.42	1.43	1.42	1.42	1.42
5580.	7.17	.01	1.42	1.41	1.43	1.42	1.00
5594.	7.15	1.00	1.42	1.43	1.42	1.43	1.43
5626.	7.17	1.00	1.43	1.44	1.43	1.43	1.43

END OF
CHARGE

PACK NO. 128
GULTON 5 A.H. NIMBUS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 130

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT 2.50	1	2	3	4	5	PSIA
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4426.	4.38	2.43	1.11	1.11	.00	1.14	1.05	27.106
4456.	4.40	2.41	1.11	1.11	.00	1.14	1.06	27.094
4522.	4.32	2.42	1.11	1.04	.00	1.14	1.04	27.453
4555.	4.32	2.42	1.11	1.05	.00	1.14	1.04	27.543
4630.	4.41	2.41	1.12	1.13	.00	1.13	1.05	27.902
4696.	4.23	2.43	1.11	.96	.00	1.13	1.04	28.081
4739.	4.24	2.42	1.13	.91	.00	1.15	1.07	28.182
4782.	4.29	2.44	1.11	1.02	.00	1.13	1.04	28.821
4834.	4.72	2.38	1.18	1.16	.00	1.19	1.16	27.711
4860.	4.46	2.47	1.13	1.17	.00	1.16	1.10	29.785
4903.	4.47	2.47	1.13	1.15	.00	1.13	1.08	28.272

END OF
DISCHARGE

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		1.63						
4426.	5.48	1.64	1.38	1.38	.00	1.35	1.39	26.164
4456.	5.85	1.65	1.46	1.47	.00	1.44	1.51	32.397
4522.	5.85	1.65	1.46	1.46	.00	1.44	1.50	32.565
4555.	5.86	1.64	1.46	1.47	.00	1.44	1.51	32.374
4630.	5.85	1.64	1.46	1.46	.00	1.45	1.51	33.451
4696.	5.85	1.64	1.46	1.45	.00	1.44	1.51	32.957
4739.	5.88	1.64	1.46	1.46	.00	1.45	1.53	33.518
4782.	5.88	1.65	1.46	1.46	.00	1.45	1.52	34.392
4834.	5.89	1.64	1.46	1.46	.00	1.45	1.52	33.395
4860.	5.89	1.64	1.45	1.47	.00	1.44	1.51	35.704
4903.	5.86	1.64	1.46	1.48	.00	1.44	1.52	31.971

END OF
CHARGE

PACK NO. 315
GULTON 4 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE	PACK	CURRENT	CELL VOLTAGES					
9019.	6.22	1.17	1.25	1.25	1.26	1.25	1.24	
9049.	6.21	1.18	1.24	1.23	1.23	1.24	1.24	
9084.	6.22	1.17	1.25	1.24	1.25	1.25	1.24	
9115.	6.21	1.17	1.24	1.25	1.25	1.25	1.24	
9148.	6.22	1.17	1.25	1.24	1.25	1.25	1.24	
9207.	6.20	1.18	1.24	1.24	1.24	1.24	1.24	
9259.	6.19	1.16	1.24	1.24	1.25	1.24	1.24	
9288.	6.21	1.19	1.24	1.24	1.25	1.25	1.24	
9331.	6.21	1.17	1.24	1.24	1.24	1.24	1.24	
9370.	6.21	1.16	1.24	1.23	1.23	1.24	1.23	
9437.	6.15	1.16	1.22	1.22	1.22	1.23	1.22	
9454.	6.21	1.15	1.23	1.23	1.23	1.23	1.23	
9468.	6.19	1.17	1.23	1.23	1.23	1.24	1.23	

END OF
DISCHARGE

211

CYCLE	PACK	CURRENT	CELL VOLTAGES					
9019.	7.76	.69	1.53	1.61	1.53	1.57	1.54	
9049.	7.78	.52	1.53	1.59	1.51	1.56	1.53	
9084.	7.72	.55	1.53	1.60	1.52	1.56	1.54	
9115.	7.74	.54	1.53	1.61	1.53	1.56	1.53	
9148.	7.74	.53	1.53	1.60	1.53	1.57	1.54	
9207.	7.76	.56	1.53	1.61	1.52	1.57	1.54	
9259.	7.76	.54	1.53	1.60	1.53	1.57	1.54	
9288.	7.74	.53	1.53	1.60	1.52	1.57	1.54	
9331.	7.81	.59	1.53	1.60	1.51	1.56	1.54	
9370.	7.78	.60	1.53	1.60	1.50	1.56	1.53	
9437.	7.76	.59	1.52	1.60	1.49	1.55	1.53	
9454.	7.77	.55	1.52	1.61	1.50	1.56	1.53	
9468.	7.81	.55	1.53	1.61	1.50	1.57	1.54	

END OF
CHARGE

PACK NO. 326
GULTON 4 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE	PACK	CURRENT	CELL VOLTAGES					
9490.	5.96	2.00	1.20	1.20	1.19	1.19	1.19	
9521.	6.91	.00	1.38	1.40	1.39	1.39	1.39	
9559.	5.95	1.99	1.19	1.20	1.20	1.19	1.19	
9586.	5.95	1.99	1.19	1.19	1.18	1.19	1.19	
9617.	5.96	1.99	1.19	1.20	1.18	1.19	1.19	
9679.	5.95	2.02	1.19	1.20	1.18	1.19	1.19	
9730.	5.94	1.99	1.19	1.19	1.19	1.19	1.19	
9759.	5.94	1.97	1.19	1.20	1.18	1.18	1.19	
9802.	5.95	1.97	1.19	1.20	1.18	1.19	1.19	
9859.	6.06	1.99	1.21	1.22	1.20	1.21	1.21	
9889.	5.99	2.00	1.20	1.21	1.20	1.20	1.21	
9948.	5.98	2.00	1.20	1.21	1.19	1.19	1.20	

END OF
DISCHARGE

		1.15					
9490.	7.89	.68	1.56	1.52	1.55	1.56	1.53
9521.	7.73	.68	1.56	1.53	1.56	1.57	1.53
9559.	7.74	.65	1.56	1.53	1.56	1.57	.00
9586.	7.75	.67	1.56	1.52	1.55	1.56	1.53
9619.	7.76	.66	1.56	1.52	1.55	1.56	1.53
9679.	7.74	.74	1.56	1.52	1.54	1.57	1.53
9730.	7.76	.67	1.56	1.53	1.56	1.57	1.53
9759.	7.76	.64	1.56	1.52	1.55	1.56	1.53
9802.	7.76	.71	1.56	1.52	1.55	1.57	1.53
9859.	7.72	.72	1.55	1.56	1.58	1.58	1.53
9889.	7.78	.72	1.00	1.50	1.55	1.56	1.53
9948.	7.72	.71	1.55	1.53	1.56	1.57	1.53

END OF
CHARGE

PACK NO. 204
GULTON 4 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.00	1	2	3	4	5
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9291.	5.79	1.99	1.16	1.16	1.18	1.16	1.16
9321.	5.77	2.00	1.16	1.16	1.17	1.16	1.15
9356.	5.77	2.00	1.16	1.16	1.18	1.15	1.15
9387.	5.77	2.00	1.16	1.16	1.18	1.15	1.15
9420.	5.76	2.00	1.16	1.16	1.18	1.15	1.15
9495.	5.68	1.99	1.15	1.12	1.17	1.16	1.12
9561.	5.78	1.99	1.16	1.16	1.18	1.15	1.15
9604.	5.79	1.99	1.16	1.16	1.18	1.16	1.16
9647.	5.73	2.01	1.15	1.14	1.17	1.14	1.14
9674.	5.73	2.00	1.15	1.14	1.16	1.14	1.15
9711.	5.75	2.00	1.15	1.15	1.16	1.14	1.15
9738.	5.74	1.99	1.16	1.16	1.17	1.15	1.17
9780.	5.75	2.00	1.15	1.15	1.16	1.14	1.15

END OF
DISCHARGE

114

		1.25					
9291.	7.36	1.27	1.47	1.46	1.46	1.53	1.47
9321.	7.32	1.28	1.46	1.45	1.45	1.53	1.46
9356.	7.35	1.27	1.47	1.45	1.46	1.54	1.47
9387.	7.35	1.27	1.47	1.45	1.45	1.53	1.46
9420.	7.34	1.27	1.47	1.45	1.46	1.53	1.46
9495.	7.29	1.26	1.46	1.45	1.46	1.51	1.45
9561.	7.36	1.26	1.47	1.45	1.46	1.53	1.47
9604.	7.34	1.26	1.47	1.45	1.46	1.53	1.47
9647.	7.31	1.28	1.46	1.44	1.45	1.52	1.45
9674.	7.33	1.26	1.47	1.44	1.45	1.53	1.46
9711.	7.33	1.27	1.46	1.44	1.45	1.53	1.46
9738.	7.36	1.25	1.47	1.45	1.45	1.53	1.47
9780.	7.39	1.25	1.47	1.46	1.46	1.55	1.48

END OF
CHARGE

PACK NO. 228
GULTON 4 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.20	1	2	3	CELL 4	VOLTAGES 5
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9184.	5.94	1.20	1.20	1.20	1.20	1.18	1.19
9214.	5.94	1.21	1.20	1.20	1.20	1.18	1.19
9249.	5.95	1.20	1.20	1.20	1.21	1.18	1.19
9280.	5.95	1.20	1.20	1.20	1.21	1.18	1.19
9313.	5.95	1.20	1.20	1.20	1.20	1.18	1.19
9388.	5.92	1.19	1.19	1.20	1.20	1.17	1.18
9454.	5.93	1.18	1.19	1.20	1.20	1.18	1.19
9497.	5.93	1.18	1.19	1.20	1.20	1.18	1.19
9540.	5.90	1.19	1.19	1.19	1.19	1.17	1.17
9567.	5.90	1.19	1.19	1.19	1.19	1.17	1.18
9604.	5.93	1.20	1.19	1.19	1.19	1.17	1.18

END OF
DISCHARGE

9673.	5.90	1.21	1.18	1.19	1.19	1.17	1.18
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.96

9184.	7.13	.73	1.44	1.43	1.44	1.43	1.43
9214.	7.14	.77	1.44	1.43	1.43	1.44	1.43
9249.	7.14	.75	1.44	1.43	1.43	1.44	1.43
9280.	7.15	.80	1.44	1.43	1.44	1.44	1.43
9313.	7.15	.77	1.44	1.43	1.44	1.44	1.43
9388.	7.15	.76	1.44	1.43	1.44	1.44	1.43
9454.	7.13	.74	1.44	1.42	1.43	1.43	1.43
9497.	7.14	.71	1.44	1.43	1.44	1.44	1.43
9540.	7.13	.70	1.43	1.42	1.43	1.43	1.42
9567.	7.12	.66	1.43	1.42	1.43	1.43	1.43
9604.	7.15	.73	1.44	1.42	1.43	1.43	1.43

END OF
CHARGE

9673.	7.14	.68	1.44	1.43	1.43	1.43	1.43
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115

PACK NO. 240
GULTON 4 A. H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 . C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.00	CELL VOLTAGES				
			2	3	4	5	

9218.	4.35	2.02	1.14	1.00	1.13	.00	1.12
9283.	4.24	2.02	1.13	.97	1.04	.00	1.11
9314.	4.25	1.99	1.15	.99	1.02	.00	1.12
9347.	4.21	2.00	1.14	.99	1.00	.00	1.11
9422.	4.13	1.98	1.14	.82	1.10	.00	1.10
9488.	4.08	1.98	1.13	.99	.86	.00	1.11
9531.	4.38	1.98	1.14	1.02	1.13	.00	1.12
9574.	4.16	2.00	1.12	.86	1.10	.00	1.11
9601.	4.16	1.98	1.12	.89	1.06	.00	1.10
9638.	4.27	2.00	1.13	.99	1.05	.00	1.10
9665.	4.17	1.99	1.13	.97	1.04	.00	1.12
9707.	4.05	2.00	1.12	.87	.98	.00	1.10

END OF
DISCHARGE

911

		1.60					
9218.	5.79	1.22	1.46	1.44	1.46	.00	1.45
9283.	5.78	1.28	1.46	1.44	1.45	.00	1.45
9314.	5.78	1.31	1.46	1.44	1.44	.00	1.45
9347.	5.77	1.30	1.46	1.44	1.44	.00	1.45
9422.	5.77	1.30	1.46	1.43	1.45	.00	1.45
9488.	5.78	1.27	1.46	1.43	1.46	.00	1.45
9531.	5.79	1.13	1.46	1.44	1.46	.00	1.45
9574.	5.78	1.22	1.46	1.44	1.45	.00	1.44
9601.	5.77	1.21	1.45	1.43	1.44	.00	1.45
9638.	5.77	1.22	1.46	1.43	1.44	.00	1.45
9665.	5.77	1.25	1.46	1.43	1.43	.00	1.44
9707.	5.77	1.22	1.46	1.44	1.44	.00	1.45

END OF
CHARGE

PACK NO. 216
GULTON 12 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.60	1	2	3	4	5
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6227.	6.22	3.61	1.25	1.25	1.25	1.25	1.24
6292.	6.20	3.61	1.24	1.25	1.25	1.25	1.24
6323.	6.26	3.61	1.26	1.26	1.26	1.26	1.25
6356.	6.25	3.61	1.25	1.26	1.26	1.26	1.25
6431.	6.27	3.60	1.26	1.27	1.27	1.27	1.25
6540.	6.24	3.60	1.25	1.25	1.26	1.26	1.25
6583.	6.22	3.60	1.24	1.25	1.25	1.25	1.24
6610.	6.21	3.60	1.24	1.25	1.25	1.25	1.24
6647.	6.21	3.60	1.24	1.24	1.25	1.25	1.24
6716.	6.20	3.56	1.24	1.25	1.25	1.25	1.25

END OF
DISCHARGE

117

		2.07					
6227.	7.52	1.07	1.59	1.50	1.48	1.49	1.50
6292.	7.51	1.05	1.59	1.49	1.48	1.49	1.50
6323.	7.68	1.14	1.63	1.53	1.50	1.51	1.53
6356.	7.66	1.14	1.62	1.53	1.50	1.51	1.53
6431.	7.69	.97	1.61	1.53	1.50	1.51	1.58
6540.	7.65	1.13	1.62	1.53	1.50	1.51	1.53
6583.	7.64	1.14	1.61	1.52	1.49	1.51	1.52
6610.	7.64	1.17	1.61	1.52	1.49	1.51	1.52
6647.	7.63	1.13	1.61	1.51	1.49	1.51	1.52
6716.	7.62	1.11	1.61	1.50	1.49	1.51	1.52

END OF
CHARGE

PACK NO. 301
GULTON 12 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE	PACK	CURRENT	CELL VOLTAGES					
7091.	4.79	5.94	1.21	1.19	1.20	.00	1.19	
7121.	4.76	5.98	1.20	1.19	1.20	.00	1.19	
7156.	4.77	5.96	1.20	1.19	1.20	.00	1.19	
7187.	5.54	.11	1.39	1.38	1.39	.00	1.38	
7220.	4.77	5.95	1.20	1.19	1.20	.00	1.19	
7279.	4.76	6.00	1.20	1.18	1.19	.00	1.19	
7331.	4.76	5.94	1.20	1.19	1.19	.00	1.19	
7360.	4.76	5.95	1.20	1.18	1.19	.00	1.18	
7403.	4.76	5.97	1.20	1.19	1.21	.00	1.19	
7442.	4.75	5.89	1.20	1.19	1.20	.00	1.19	
7474.	4.83	5.80	1.25	1.23	1.26	.00	1.25	
7489.	4.65	6.89	1.18	1.16	1.18	.00	1.17	
7521.	4.79	5.93	1.21	1.20	1.21	.00	1.20	

END OF
DISCHARGE

811

		3.45					
7091.	6.24	1.68	1.55	1.58	1.53	.00	1.58
7121.	6.25	1.87	1.55	1.60	1.54	.00	1.58
7156.	6.24	1.71	1.55	1.58	1.53	.00	1.58
7187.	6.25	1.73	1.55	1.58	1.53	.00	1.58
7220.	6.24	1.71	1.55	1.58	1.53	.00	1.59
7279.	6.28	1.83	1.56	1.59	1.53	.00	1.59
7331.	6.26	1.80	1.56	1.59	1.53	.00	1.59
7360.	6.25	1.73	1.55	1.59	1.53	.00	1.59
7403.	6.23	1.77	1.55	1.58	1.54	.00	1.58
7442.	6.18	1.61	1.54	1.58	1.52	.00	1.57
7474.	6.20	1.47	1.55	1.58	1.52	.00	1.58
7489.	6.14	2.18	1.52	1.58	1.51	.00	1.55
7521.	6.17	2.89	1.53	1.59	1.52	.00	1.54

END OF
CHARGE

PACK NO. 227
GULTON 12 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	1	2	3	4	5
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6224.	5.64	5.95	1.13	1.14	1.13	1.13	1.14
6484.	5.68	5.97	1.14	1.15	1.14	1.14	1.13
6513.	5.62	6.01	1.13	1.14	1.12	1.13	1.13
6549.	5.66	5.96	1.13	1.15	1.14	1.14	1.13
6580.	5.66	6.01	1.13	1.15	1.14	1.14	1.13
6613.	5.65	6.00	1.13	1.15	1.14	1.14	1.13
6688.	5.45	5.98	1.11	1.10	1.08	1.08	1.11
6754.	5.70	5.97	1.15	1.15	1.15	1.15	1.14
6797.	5.72	5.96	1.15	1.16	1.15	1.15	1.15
6836.	5.66	5.96	1.14	1.14	1.13	1.14	1.15
6867.	5.67	5.96	1.14	1.14	1.14	1.14	1.13
6904.	5.68	5.98	1.13	1.15	1.13	1.14	1.14
6946.	5.68	5.99	1.14	1.15	1.13	1.14	1.14
6978.	5.71	5.96	1.14	1.16	1.14	1.15	1.15

END OF
DISCHARGE

119

		3.75					
6224.	6.10	5.98	1.23	1.23	1.22	1.23	1.22
6484.	7.34	3.84	1.45	1.48	1.48	1.48	1.48
6513.	7.29	3.77	1.44	1.47	1.46	1.47	1.47
6549.	7.36	3.81	1.45	1.49	1.48	1.48	1.48
6580.	7.35	3.83	1.45	1.49	1.48	1.48	1.48
6613.	7.36	3.83	1.45	1.49	1.48	1.48	1.48
6688.	7.19	3.82	1.43	1.45	1.44	1.44	1.45
6754.	7.38	3.84	1.46	1.49	1.49	1.48	1.49
6797.	7.37	3.84	1.45	1.49	1.49	1.48	1.48
6836.	7.36	3.84	1.45	1.48	1.48	1.48	1.48
6867.	7.37	3.82	1.45	1.49	1.48	1.48	1.48
6904.	7.38	3.85	1.45	1.49	1.48	1.48	1.48
6946.	7.38	3.84	1.45	1.50	1.48	1.48	1.49
6978.	7.42	3.75	1.45	1.51	1.49	1.49	1.49

END OF
CHARGE

PACK NO. 78
GULTON 12 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.60	1	2	3	CELL VOLTAGES 4	5
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7045.	4.58	3.60	1.15	1.14	1.16	.00	1.15
7074.	5.21	3.65	1.32	1.31	1.31	.00	1.31
7110.	4.53	3.56	1.14	1.13	1.15	.00	1.13
7141.	4.59	3.61	1.15	1.15	1.16	.00	1.15
7174.	4.58	3.61	1.15	1.14	1.16	.00	1.15
7249.	4.58	3.59	1.15	1.14	1.16	.00	1.15
7283.	4.58	3.52	1.15	1.14	1.15	.00	1.16
7315.	4.57	3.61	1.15	1.13	1.16	.00	1.15
7358.	4.57	3.59	1.16	1.13	1.15	.00	1.16
7397.	4.58	3.57	1.15	1.13	1.15	.00	1.16
7416.	4.53	3.62	1.14	1.12	1.15	.00	1.14
7458.	4.56	3.62	1.15	1.13	1.14	.00	1.15
7490.	4.57	3.61	1.15	1.14	1.15	.00	1.16

END OF
DISCHARGE

120

		2.88					
7045.	5.78	2.93	1.44	1.45	1.47	.00	1.43
7074.	5.74	2.46	1.43	1.44	1.45	.00	1.42
7110.	5.84	2.96	1.46	1.46	1.49	.00	1.44
7141.	5.78	2.95	1.44	1.45	1.47	.00	1.43
7174.	5.78	2.93	1.44	1.45	1.47	.00	1.43
7249.	5.78	2.92	1.44	1.45	1.47	.00	1.43
7283.	5.78	2.91	1.44	1.45	1.46	.00	1.42
7315.	5.78	2.93	1.44	1.44	1.47	.00	1.43
7358.	5.82	2.93	1.45	1.46	1.49	.00	1.44
7397.	5.80	2.92	1.45	1.45	1.47	.00	1.43
7416.	5.76	2.84	1.43	1.44	1.45	.00	1.42
7458.	5.78	2.86	1.44	1.45	1.46	.00	1.43
7490.	5.79	2.94	1.44	1.45	1.46	.00	1.43

END OF
CHARGE

PACK NO. 213
GULTON HSI 6 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.00	CELL VOLTAGES				
			1	2	3	4	5

6180.	6.06	3.01	1.22	1.22	1.22	1.22	1.21
6215.	6.04	3.00	1.21	1.21	1.22	1.22	1.21
6338.	6.10	3.00	1.22	1.23	1.23	1.23	1.22
6390.	6.06	2.97	1.22	1.22	1.22	1.22	1.22
6419.	6.08	2.97	1.22	1.22	1.23	1.22	1.20
6462.	6.06	2.97	1.22	1.22	1.22	1.22	1.21
6501.	6.06	2.93	1.22	1.21	1.26	1.22	1.22
6533.	5.97	3.00	1.22	1.22	1.23	1.23	1.23
6568.	6.03	2.98	1.21	1.21	1.21	1.21	1.21
6597.	6.01	2.97	1.21	1.21	1.20	1.21	1.20
6611.	6.01	3.00	1.21	1.21	1.20	1.21	1.21
6643.	6.03	2.97	1.21	1.21	1.21	1.21	1.21

END OF
DISCHARGE

121

		1.73					
6180.	7.88	1.38	1.57	1.58	1.56	1.61	1.59
6215.	7.84	1.05	1.55	1.56	1.56	1.61	1.58
6338.	7.90	1.22	1.57	1.57	1.56	1.62	1.60
6390.	7.88	1.12	1.57	1.57	1.56	1.61	1.59
6419.	7.89	1.14	1.57	1.57	1.57	1.62	1.60
6462.	7.93	1.27	1.58	1.58	1.57	1.63	1.60
6501.	7.86	1.21	1.56	1.56	1.55	1.61	1.59
6533.	7.91	1.27	1.57	1.57	1.56	1.62	1.60
6568.	7.92	1.33	1.58	1.58	1.56	1.62	1.60
6597.	7.88	1.25	1.56	1.57	1.55	1.61	1.59
6611.	7.91	1.26	1.57	1.57	1.56	1.62	1.60
6643.	7.94	1.24	1.57	1.58	1.56	1.63	1.61

END OF
CHARGE

PACK NO. 218
GULTON HSI 6 A.H.

DEPTH OF DISCHARGE 40
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 4.80	1	2	3	4	5
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6121.	6.67	2.80	1.34	.00	1.33	1.34	1.34
6152.	4.49	4.70	1.13	.00	1.13	1.14	1.12
6219.	4.46	4.70	1.12	.00	1.12	1.13	1.11
6259.	4.46	4.65	1.12	.00	1.11	1.14	1.12
6331.	4.35	4.68	1.13	.00	1.13	1.15	1.12
6369.	4.38	4.65	1.10	.00	1.11	1.12	1.08
6398.	4.42	4.62	1.12	.00	1.11	1.13	1.09
6430.	4.38	4.65	1.11	.00	1.10	1.13	1.07
6465.	4.32	4.57	1.10	.00	1.07	1.12	1.05
6494.	4.33	4.56	1.11	.00	1.08	1.12	1.04
6508.	4.28	4.60	1.09	.00	1.06	1.11	1.04
6540.	3.74	4.40	.96	.00	.92	.97	.92

END OF
DISCHARGE

122

		3.00					
6121.	7.53	.87	1.51	.00	1.51	1.52	1.50
6152.	6.08	1.32	1.53	.00	1.53	1.53	1.52
6219.	6.12	1.30	1.53	.00	1.55	1.52	1.54
6259.	6.08	1.32	1.53	.00	1.54	1.50	1.53
6331.	6.12	1.19	1.53	.00	1.55	1.51	1.53
6369.	6.14	1.11	1.55	.00	1.57	1.52	1.54
6398.	6.12	1.13	1.54	.00	1.54	1.53	1.54
6430.	6.12	1.12	1.54	.00	1.54	1.52	1.54
6465.	6.12	1.32	1.54	.00	1.52	1.53	1.55
6494.	6.13	1.12	1.53	.00	1.52	1.52	1.53
6508.	6.10	1.14	1.53	.00	1.52	1.52	1.54
6540.	5.74	1.57	1.44	.00	1.42	1.43	1.44

END OF
CHARGE

PACK NO. 243
SONOTONE 3 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE PACK CURRENT
NO. VOLTAGE 0.90 1 2 3 4 5

4079.	6.07	.89	1.21	1.22	1.22	1.23	1.22
4125.	6.06	.91	1.21	1.22	1.21	1.22	1.22
4184.	6.06	.90	1.21	1.22	1.22	1.22	1.21
4251.	6.05	.90	1.21	1.22	1.21	1.22	1.21
4291.	6.06	.89	1.21	1.22	1.22	1.22	1.22
4363.	5.94	.91	1.22	1.22	1.23	1.24	1.23
4401.	6.02	.92	1.21	1.21	1.21	1.22	1.21
4491.	6.07	.91	1.21	1.22	1.21	1.22	1.22
4523.	6.08	.89	1.21	1.22	1.21	1.23	1.22

END OF
DISCHARGE

52

		.52					
4079.	7.69	.23	1.47	1.49	1.50	1.60	1.67
4125.	7.69	.24	1.47	1.49	1.49	1.60	1.67
4184.	7.69	.24	1.47	1.49	1.50	1.59	1.66
4251.	7.68	.26	1.47	1.50	1.50	1.59	1.65
4291.	7.73	.18	1.46	1.48	1.49	1.68	1.66
4363.	7.70	.24	1.47	1.49	1.50	1.60	1.66
4401.	7.69	.24	1.47	1.49	1.50	1.62	1.64
4491.	7.67	.29	1.46	1.47	1.49	1.63	1.64
4523.	7.68	.28	1.46	1.48	1.49	1.62	1.65

END OF
CHARGE

PACK NO. 231
SONOTONE 3 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES				
			1	2	3	4	5

4079.	5.83	1.48	1.18	1.17	1.19	1.18	1.14
4125.	5.83	1.51	1.18	1.18	1.18	1.18	1.14
4153.	5.76	1.11	1.16	1.16	1.15	1.15	1.15
4184.	5.81	1.50	1.18	1.17	1.18	1.18	1.13
4251.	5.79	1.51	1.17	1.17	1.18	1.18	1.13
4291.	5.83	1.47	1.18	1.18	1.19	1.18	1.13
4363.	5.68	1.50	1.18	1.18	1.19	1.19	1.14
4401.	5.76	1.49	1.17	1.16	1.17	1.17	1.12
4448.	5.87	1.50	1.18	1.18	1.18	1.18	1.15
4491.	5.83	1.51	1.17	1.17	1.17	1.18	1.14

END OF
DISCHARGE

		.86					
4079.	7.66	.47	1.54	1.53	1.56	1.53	1.52
4125.	7.66	.51	1.53	1.54	1.55	1.53	1.52
4153.	7.68	.32	1.54	1.54	1.54	1.54	1.54
4184.	7.67	.46	1.54	1.54	1.56	1.54	1.52
4251.	7.66	.49	1.54	1.54	1.56	1.54	1.52
4291.	7.67	.44	1.54	1.55	1.55	1.54	1.52
4363.	7.67	.48	1.54	1.54	1.56	1.54	1.49
4401.	7.67	.44	1.54	1.53	1.56	1.54	1.53
4448.	7.81	.84	1.57	1.57	1.58	1.57	1.55
4491.	7.72	.86	1.54	1.54	1.56	1.55	1.54

END OF
CHARGE

121

PACK NO. 203
SONOTONE 3 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	CELL VOLTAGES				
			1	2	3	4	5

4246.	5.76	1.50	1.16	1.17	1.13	1.17	1.16
4275.	5.73	1.49	1.15	1.16	1.12	1.16	1.15
4311.	5.76	1.48	1.16	1.16	1.13	1.17	1.16
4342.	5.76	1.49	1.16	1.16	1.13	1.17	1.16
4375.	5.76	1.49	1.16	1.16	1.13	1.16	1.16
4450.	5.78	1.49	1.16	1.17	1.16	1.17	1.15
4486.	5.73	1.49	1.16	1.16	1.12	1.16	1.16
4516.	5.76	1.50	1.16	1.16	1.13	1.16	1.16
4559.	5.75	1.50	1.16	1.16	1.13	1.17	1.16
4617.	5.80	1.52	1.17	1.17	1.13	1.17	1.17
4659.	5.80	1.50	1.17	1.17	1.13	1.17	1.17
4691.	5.81	1.49	1.17	1.18	1.14	1.17	1.18

END OF
DISCHARGE

125

		.94					
4246.	7.26	.95	1.45	1.46	1.47	1.47	1.45
4275.	7.22	.95	1.44	1.45	1.45	1.46	1.44
4311.	7.25	.95	1.45	1.46	1.47	1.47	1.45
4342.	7.27	.95	1.45	1.46	1.47	1.47	1.45
4375.	7.26	.95	1.45	1.46	1.47	1.47	1.45
4450.	7.21	.95	1.44	1.45	1.46	1.46	1.44
4486.	7.23	.95	1.44	1.45	1.46	1.46	1.43
4516.	7.29	.94	1.46	1.46	1.47	1.47	1.46
4559.	7.24	.80	1.45	1.45	1.46	1.47	1.45
4617.	7.26	.95	1.44	1.45	1.46	1.47	1.45
4659.	7.28	.95	1.46	1.46	1.46	1.47	1.46
4691.	7.31	.95	1.46	1.47	1.46	1.48	1.46

END OF
CHARGE

PACK NO. 202
SONOTONE 3 A.H.

DEPTH OF DISCHARGE 40
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.40	CELL VOLTAGES				
			2	3	4	5	

3927.	5.15	1.85	1.33	1.28	.00	1.27	1.29
3955.	4.36	2.40	1.05	1.12	.00	1.11	1.10
3992.	4.37	2.36	1.05	1.13	.00	1.11	1.10
4023.	4.37	2.34	1.04	1.13	.00	1.11	1.10

END OF
DISCHARGE

4116.	4.35	2.36	1.03	1.13	.00	1.11	1.10
4167.	4.37	2.34	1.04	1.13	.00	1.11	1.12
4239.	4.33	2.36	1.03	1.12	.00	1.10	1.10
4279.	4.32	2.36	1.03	1.12	.00	1.09	1.12
4310.	4.29	2.38	1.01	1.11	.00	1.09	1.10
4345.	4.31	2.35	1.02	1.12	.00	1.08	1.10
4434.	4.28	2.48	1.02	1.11	.00	1.07	1.09

		1.50					
3927.	5.99	1.15	1.47	1.47	.00	1.58	1.50
3955.	5.99	1.11	1.47	1.47	.00	1.58	1.49
3992.	6.03	1.01	1.47	1.47	.00	1.60	1.50
4023.	6.02	.99	1.47	1.47	.00	1.60	1.50

END OF
CHARGE

4116.	5.88	1.43	1.48	1.47	.00	1.47	1.48
4167.	6.04	1.10	1.47	1.47	.00	1.61	1.49
4239.	6.06	1.02	1.48	1.47	.00	1.61	1.52
4279.	6.06	.99	1.48	1.47	.00	1.61	1.53
4310.	6.06	.96	1.47	1.47	.00	1.61	1.53
4345.	6.08	.96	1.48	1.47	.00	1.61	1.54
4434.	6.16	1.32	1.50	1.50	.00	1.63	1.56

126

PACK NO. 226
SONOTONE 3 A.H.

DEPTH OF DISCHARGE 15
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 0.90	1	2	3	4	5
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4026.	5.84	.89	1.18	1.18	1.18	1.18	1.15
4054.	5.82	.90	1.18	1.18	1.17	1.18	1.14
4091.	5.83	.89	1.17	1.18	1.17	1.18	1.14
4122.	5.83	.89	1.18	1.18	1.17	1.18	1.14
4155.	5.82	.89	1.17	1.18	1.17	1.18	1.14
4215.	5.82	.90	1.17	1.18	1.16	1.18	1.15
4266.	5.80	.88	1.17	1.18	1.17	1.18	1.18
4295.	5.81	.89	1.17	1.18	1.17	1.18	1.14
4338.	5.73	.89	1.17	1.16	1.15	1.16	1.11

END OF
DISCHARGE

4409.	5.81	.91	1.17	1.18	1.17	1.18	1.14
4444.	5.81	.90	1.17	1.18	1.16	1.18	1.14
4474.	5.78	.90	1.17	1.19	1.17	1.19	1.15
4500.	5.80	.89	1.16	1.18	1.16	1.18	1.14

		.72					
4026.	7.11	.73	1.41	1.43	1.44	1.43	1.44
4054.	7.11	.72	1.40	1.43	1.44	1.43	1.44
4091.	7.12	.70	1.41	1.43	1.44	1.43	1.43
4122.	7.11	.71	1.41	1.43	1.44	1.43	1.43
4155.	7.11	.71	1.41	1.43	1.44	1.43	1.44
4215.	7.08	.72	1.40	1.42	1.43	1.42	1.43
4266.	7.00	.72	1.41	1.42	1.44	1.43	1.42
4295.	7.10	.72	1.41	1.44	1.44	1.43	1.44
4338.	7.02	.73	1.38	1.40	1.42	1.41	1.41

END OF
CHARGE

4409.	7.12	.72	1.40	1.42	1.44	1.43	1.44
4444.	7.11	.72	1.40	1.43	1.44	1.43	1.44
4474.	7.13	.72	1.40	1.42	1.43	1.42	1.44
4500.	7.00	.71	1.41	1.43	1.44	1.43	1.45

127

PACK NO. 237
SONOTONE 3 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.50	1	2	3	4	5
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4045.	5.60	1.50	1.16	1.16	1.16	1.16	1.00
4075.	5.44	1.51	1.14	1.13	1.12	1.14	.93
4110.	5.51	1.50	1.15	1.14	1.14	1.15	.97
4141.	5.51	1.50	1.15	1.14	1.13	1.14	.97
4174.	5.51	1.49	1.15	1.14	1.11	1.15	.98
4233.	5.29	1.50	1.14	1.10	1.07	1.13	.87
4285.	5.37	1.50	1.15	1.12	1.02	1.14	.97

END OF
DISCHARGE

4357.	5.43	1.51	1.14	1.10	1.12	1.13	.97
4396.	5.56	1.49	1.15	1.13	1.13	1.14	1.02
4428.	5.23	1.50	1.16	1.13	1.09	1.16	1.00
4463.	5.50	1.50	1.14	1.13	1.13	1.14	.97
4492.	6.08	1.50	1.23	1.23	1.23	1.23	1.16
4538.	6.55	2.00	1.29	1.29	1.29	1.30	1.40

1.20

4045.	7.28	.65	1.43	1.45	1.45	1.45	1.52
4075.	7.25	.60	1.43	1.45	1.43	1.45	1.52
4110.	7.26	.57	1.43	1.45	1.44	1.45	1.52
4141.	7.27	.57	1.43	1.45	1.44	1.45	1.52
4174.	7.26	.58	1.43	1.45	1.44	1.45	1.53
4233.	7.27	.57	1.43	1.45	1.43	1.45	1.54
4285.	7.25	.60	1.43	1.44	1.43	1.45	1.53

END OF
CHARGE

4357.	7.24	.69	1.42	1.44	1.44	1.44	1.53
4396.	7.26	.40	1.43	1.44	1.43	1.45	1.53
4428.	7.28	.55	1.43	1.45	1.43	1.45	1.55
4463.	7.38	.64	1.44	1.46	1.45	1.46	1.59
4492.	7.32	.40	1.43	1.45	1.44	1.45	1.54
4538.	7.29	.56	1.44	1.45	1.44	1.46	1.53

128

PACK NO. 257
YARDNEY 5 A.H.

DEPTH OF DISCHARGE 20
PERCENT OF RECHARGE .3A

TEST TEMPERATURE 0
ORBIT PERIOD 24 HRS.

CYCLE PACK CURRENT
NO. VOLTAGE 1.00

CELL VOLTAGES

1 2 3 4 5

198.	2.35	.84	.00	.80	1.08	1.07	1.02
205.	4.12	.91	.00	.97	1.08	1.08	1.03
211.	3.37	1.01	.00	.01	1.05	1.08	1.28
220.	3.11	1.02	.00	.00	.99	1.06	1.09

END OF
DISCHARGE

		.30					
198.	6.03	.00	.00	1.45	1.54	1.65	1.40
205.	6.01	.00	.00	1.44	1.55	1.66	1.39
211.	4.74	.01	.00	.01	1.66	1.55	1.55
220.	4.50	.03	.00	.00	1.50	1.53	1.49

END OF
CHARGE

129

PACK NO. 69
YARDNEY 5 A.H.

DEPTH OF DISCHARGE 20
PERCENT OF RECHARGE .3A

TEST TEMPERATURE 25 °
ORBIT PERIOD 24 HRS.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.00	CELL VOLTAGES				
			1	2	3	4	5

155.	5.34	.99	1.07	1.08	1.08	1.08	1.06
162.	5.35	1.00	1.07	1.08	1.09	1.08	1.06
169.	5.33	.99	1.06	1.07	1.08	1.07	1.05
178.	5.33	.98	1.06	1.08	1.07	1.08	1.06

END OF
DISCHARGE

		.30					
155.	7.56	.00	1.43	1.43	1.83	1.45	1.44
162.	7.57	.00	1.42	1.43	1.74	1.60	1.40
169.	6.00	.00	1.41	1.41	1.70	1.59	1.41
178.	7.59	.00	1.41	1.41	1.71	1.66	1.41

END OF
CHARGE

130

PACK NO. 233
YARDNEY 5 A.H.

DEPTH OF DISCHARGE 20
PERCENT OF RECHARGE .3A

TEST TEMPERATURE 25 C
ORBIT PERIOD 24 HRS.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.00	CELL VOLTAGES				
			1	2	3	4	5

155.	5.41	.99	1.08	1.08	1.08	1.11	1.09
162.	5.37	.97	1.08	1.08	1.08	1.09	1.09
169.	5.34	1.00	1.07	1.07	1.08	1.07	1.06
178.	5.34	.99	1.07	1.08	1.07	1.07	1.07

END OF
DISCHARGE

		.30					
155.	7.62	.00	1.53	1.53	1.53	1.53	1.53
162.	7.61	.00	1.53	1.53	1.53	1.53	1.51
169.	7.54	.00	1.52	1.51	1.51	1.52	1.51
178.	7.63	.00	1.53	1.53	1.53	1.53	1.53

END OF
CHARGE

131

PACK NO. 232
GULTON 5.6 A.H. RS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE -20 C
ORBIT PERIOD 90 MIN.

CYCLE PACK CURRENT
NO. VOLTAGES 2.80 1 2 3 4 5

1329. 5.72 2.73 1.15 1.16 1.16 1.16 1.13
1377. 5.72 2.75 1.15 1.16 1.15 1.15 1.13

END OF
DISCHARGE

1434. 5.71 2.75 1.14 1.15 1.15 1.15 1.13
1500. 5.62 2.79 1.13 1.14 1.14 1.14 1.09
1543. 5.68 2.79 1.14 1.15 1.15 1.14 1.12
1614. 5.77 2.78 1.15 1.16 1.16 1.16 1.15
1651. 5.86 2.76 1.18 1.18 1.18 1.18 1.17
1678. 5.78 2.71 1.16 1.16 1.16 1.16 1.16
1712. 5.79 2.73 1.16 1.16 1.16 1.16 1.16
1747. 5.76 2.81 1.15 1.16 1.15 1.15 1.15
1836. 5.73 2.80 1.15 1.15 1.15 1.15 1.15

1.61

1329. 7.54 .85 1.52 1.52 1.52 1.52 1.50
1377. 7.55 .88 1.51 1.52 1.52 1.52 1.50

END OF
CHARGE

1434. 7.54 .85 1.51 1.52 1.52 1.52 1.50
1500. 7.54 .90 1.51 1.52 1.52 1.52 1.50
1543. 7.59 .88 1.52 1.53 1.53 1.53 1.51
1614. 7.60 .84 1.52 1.54 1.53 1.53 1.51
1651. 7.84 .95 1.57 1.58 1.58 1.58 1.56
1678. 7.81 .89 1.56 1.57 1.57 1.57 1.56
1712. 7.80 .88 1.56 1.57 1.57 1.57 1.56
1747. 7.84 .94 1.57 1.58 1.57 1.58 1.57
1836. 7.82 .88 1.56 1.58 1.57 1.57 1.57

25/

PACK NO. 244
GULTON 5.6 A.H. FRS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE -20 C
ORBIT PERIOD 90 MIN.

CYCLE PACK CURRENT
NO. VOLTAGES 2.80 1 2 3 4 5

1329. 5.78 2.75 1.16 1.17 1.17 1.16 1.16
1377. 5.78 2.76 1.16 1.17 1.16 1.16 1.16

END OF
DISCHARGE

1434. 5.77 2.77 1.16 1.16 1.16 1.16 1.15
1500. 5.73 2.77 1.15 1.15 1.15 1.15 1.14
1543. 5.73 2.77 1.15 1.15 1.16 1.15 1.14
1614. 5.80 2.75 1.16 1.17 1.17 1.16 1.16
1651. 5.79 2.75 1.16 1.16 1.17 1.16 1.16
1678. 5.76 2.73 1.16 1.16 1.15 1.15 1.16
1712. 5.75 2.75 1.15 1.15 1.16 1.15 1.15
1747. 5.76 2.76 1.15 1.16 1.15 1.15 1.16
1751. 5.74 2.78 1.15 1.15 1.15 1.15 1.15
1822. 5.74 2.74 1.15 1.15 1.15 1.15 1.15

1.61

1329. 7.68 .76 1.54 1.54 1.55 1.54 1.54
1377. 7.68 .78 1.54 1.54 1.55 1.54 1.54

END OF
CHARGE

1434. 7.68 .77 1.54 1.54 1.55 1.54 1.54
1500. 7.67 .77 1.54 1.54 1.54 1.54 1.54
1543. 7.69 .77 1.55 1.54 1.55 1.54 1.54
1614. 7.72 .81 1.55 1.55 1.56 1.55 1.55
1651. 7.72 .83 1.55 1.54 1.56 1.55 1.55
1678. 7.72 .82 1.55 1.54 1.55 1.54 1.55
1712. 7.68 .79 1.54 1.53 1.55 1.54 1.54
1747. 7.73 .84 1.55 1.55 1.55 1.54 1.55
1751. 7.71 .82 1.55 1.54 1.55 1.54 1.55
1822. 7.72 .75 1.55 1.54 1.55 1.54 1.55

133

PACK NO. 200
GULTON 5.6 A.H. FRS

DEPTH OF DISCHARGE 25 .
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK CURRENT VOLTAGES	2.80	1	2	3	4	5
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1609.	5.90	2.74	1.19	1.19	1.19	1.18	1.18
1633.	7.27	1.04	1.44	1.45	1.45	1.45	1.45
1655.	5.88	2.77	1.18	1.18	1.18	1.18	1.17
1664.	5.87	2.76	1.18	1.17	1.17	1.17	1.17
1731.	5.83	2.85	1.17	1.17	1.16	1.16	1.16
1771.	5.88	2.75	1.18	1.17	1.17	1.17	1.17
1794.	5.99	2.77	1.21	1.20	1.19	1.20	1.21
1832.	5.89	2.74	1.19	1.18	1.18	1.18	1.18
1864.	5.86	2.72	1.18	1.17	1.17	1.17	1.18
1897.	5.87	2.76	1.18	1.17	1.16	1.16	1.16
1934.	5.85	2.78	1.17	1.16	1.16	1.16	1.16
1976.	5.84	2.76	1.17	1.17	1.16	1.16	1.16
2008.	5.84	2.74	1.17	1.17	1.17	1.16	1.17

END OF
DISCHARGE

134

		1.61					
1609.	7.70	1.10	1.54	1.55	1.54	1.55	1.53
1633.	8.56	2.12	1.67	1.71	1.73	1.72	1.70
1655.	7.70	1.08	1.54	1.55	1.53	1.55	1.53
1664.	7.70	1.08	1.54	1.54	1.52	1.54	1.53
1731.	7.70	1.12	1.54	1.54	1.53	1.54	1.54
1771.	7.71	1.09	1.55	1.55	1.53	1.55	1.54
1794.	7.78	1.31	1.56	1.56	1.54	1.56	1.55
1832.	7.76	1.34	1.56	1.57	1.55	1.57	1.55
1864.	7.74	1.38	1.55	1.56	1.54	1.56	1.55
1897.	7.79	1.35	1.55	1.56	1.53	1.55	1.54
1934.	7.74	1.20	1.55	1.56	1.53	1.55	1.54
1976.	7.74	1.17	1.55	1.56	1.53	1.55	1.54
2008.	7.73	1.21	1.54	1.56	1.53	1.55	1.54

END OF
CHARGE

PACK NO. 390
GULTON 5.6 A.H. RS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 115

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE PACK CURRENT
NO. VOLTAGES 2.80 1 2 3 4 5

1635.	5.84	2.81	1.18	1.17	1.18	1.18	1.16
1679.	5.83	2.84	1.18	1.17	1.17	1.17	1.16
1700.	5.83	2.83	1.18	1.16	1.16	1.17	1.16
1731.	5.92	2.82	1.18	1.16	1.16	1.17	1.16
1764.	5.83	2.80	1.18	1.16	1.16	1.17	1.16
1824.	5.84	2.81	1.18	1.16	1.16	1.17	1.16
1898.	5.91	2.82	1.19	1.18	1.18	1.18	1.17
1938.	5.86	2.79	1.19	1.17	1.17	1.18	1.17
1969.	5.84	2.83	1.19	1.18	1.18	1.19	1.19
2004.	5.86	2.73	1.18	1.17	1.17	1.18	1.17
2034.	5.88	2.75	1.19	1.17	1.17	1.18	1.17
2093.	5.85	2.74	1.18	1.17	1.16	1.17	1.16

END OF
DISCHARGE

135

		1.61					
1635.	7.71	.85	1.55	1.55	1.55	1.54	1.56
1679.	7.71	.82	1.55	1.55	1.55	1.53	1.56
1700.	7.73	.80	1.55	1.54	1.54	1.53	1.56
1731.	7.74	.85	1.55	1.54	1.54	1.53	1.56
1764.	7.74	.83	1.55	1.54	1.54	1.53	1.56
1824.	7.71	.94	1.54	1.54	1.53	1.52	1.55
1898.	7.85	1.04	1.57	1.56	1.56	1.55	1.59
1938.	7.78	.96	1.56	1.55	1.56	1.54	1.58
1969.	7.93	.96	1.57	1.56	1.55	1.54	1.58
2004.	7.75	.83	1.56	1.56	1.55	1.54	1.57
2034.	7.77	.85	1.55	1.55	1.54	1.52	1.56
2093.	7.76	.78	1.56	1.55	1.55	1.53	1.56

END OF
CHARGE

PACK NO. 276
GULTON 5.6 A.H. FRS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE PACK CURRENT
NO. VOLTAGES 2.80 1 2 3 4 5

1727.	-5.28	2.78	1.02	1.02	1.08	1.06	1.07
1764.	5.46	2.77	1.09	1.06	1.09	1.12	1.12
1795.	5.43	2.77	1.08	1.06	1.08	1.12	1.12
1828.	5.41	2.77	1.08	1.05	1.07	1.12	1.12
1888.	5.30	2.79	1.04	1.02	1.05	1.11	1.11
1939.	5.39	2.76	1.07	1.03	1.08	1.11	1.12
1968.	5.38	2.75	1.09	.96	1.11	1.13	1.13

2011.	5.04	2.75	1.05	.73	1.07	1.11	1.10
2019.	5.09	2.76	1.07	.73	1.08	1.12	1.12
2027.	4.28	2.78	1.03	.00	1.06	1.10	1.11

END OF
DISCHARGE

136

		1.75					
1727.	7.29	1.77	1.45	1.48	1.46	1.45	1.45
1764.	7.32	1.76	1.46	1.49	1.48	1.47	1.46
1795.	7.33	1.76	1.46	1.49	1.48	1.47	1.46
1828.	7.33	1.77	1.46	1.49	1.48	1.46	1.46
1888.	7.25	1.77	1.45	1.48	1.45	1.45	1.45
1939.	7.30	1.77	1.46	1.50	1.47	1.46	1.44
1968.	7.39	1.77	1.46	1.54	1.48	1.47	1.47
2011.	7.39	1.77	1.46	1.57	1.48	1.46	1.45
2019.	7.39	1.77	1.46	1.57	1.48	1.46	1.46
2027.	5.83	1.79	1.45	.00	1.47	1.46	1.46

END OF
CHARGE

PACK NO. 396
GULTON 5.6 A.H. RS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 125

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT 2.80	CELL VOLTAGES				
			1	2	3	4	5

1781.	5.51	2.81	1.11	1.11	1.10	1.09	1.09
1798.	5.45	2.68	1.10	1.12	1.11	1.09	1.06
1826.	5.59	2.51	1.11	1.15	1.14	1.13	1.09
1831.	5.54	2.68	1.10	1.14	1.13	1.11	1.08
1890.	5.51	2.61	1.10	1.14	1.12	1.10	1.07
1942.	5.65	2.50	1.12	1.15	1.15	1.14	1.12
1971.	5.62	2.56	1.12	1.15	1.14	1.13	1.11
2014.	5.40	2.67	1.10	1.10	1.08	1.07	1.06
2053.	5.54	2.63	1.10	1.13	1.11	1.11	1.09
2085.	5.92	2.74	1.16	1.21	1.19	1.20	1.19
2137.	5.59	2.63	1.11	1.14	1.12	1.12	1.10
2151.	5.35	2.67	1.09	1.11	1.08	1.05	1.03
2183.	5.30	2.82	1.09	1.09	1.06	1.04	1.01

END OF
DISCHARGE

137

		1.75					
1781.	7.19	1.25	1.45	1.42	1.43	1.44	1.44
1798.	7.18	1.11	1.45	1.43	1.44	1.44	1.43
1826.	7.18	1.11	1.46	1.43	1.44	1.44	1.44
1831.	7.20	1.14	1.46	1.44	1.45	1.45	1.44
1890.	7.19	1.18	1.46	1.44	1.44	1.44	1.44
1942.	7.19	1.10	1.46	1.43	1.44	1.44	1.44
1971.	7.19	1.07	1.47	1.43	1.44	1.44	1.44
2014.	7.20	1.12	1.42	1.39	1.51	1.42	1.44
2053.	7.24	1.13	1.47	1.43	1.43	1.44	1.44
2085.	7.22	1.09	1.47	1.43	1.43	1.44	1.44
2137.	7.25	1.01	1.50	1.41	1.43	1.43	1.43
2151.	7.20	1.00	1.49	1.42	1.42	1.43	1.43
2183.	7.22	.98	1.49	1.43	1.42	1.44	1.43

END OF
CHARGE

PACK NO. 242
GULTON 5.6 A.H. FRS

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 160

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT 2.80	CELL VOLTAGES				
			1	2	3	4	5

1807.	5.16	2.76	1.05	1.00	1.09	1.00	1.03
1836.	5.19	2.78	1.04	1.02	1.08	1.01	1.04
1872.	5.17	2.75	1.02	1.02	1.09	1.02	1.04
1903.	7.07	2.63	1.42	1.43	1.42	1.43	1.41
1936.	5.16	2.76	1.02	1.02	1.08	1.02	1.04
2011.	5.11	2.76	1.01	1.03	1.05	1.01	1.04
2077.	5.19	2.75	1.04	1.02	1.08	1.02	1.05
2120.	4.96	2.74	1.02	.96	1.07	.95	.98
2159.	5.22	2.73	1.02	1.03	1.09	1.03	1.08
2190.	5.27	2.75	1.04	1.04	1.09	1.04	1.08
2227.	5.22	2.78	1.05	1.04	1.07	1.02	1.06
2269.	5.28	2.78	1.06	1.05	1.07	1.04	1.07
2301.	5.29	2.76	1.05	1.06	1.07	1.05	1.08
7047.	5.01	2.74	1.00	.99	1.05	.98	1.03

END OF
DISCHARGE

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		2.24					
1807.	7.22	1.77	1.45	1.45	1.45	1.46	1.43
1836.	7.21	1.75	1.45	1.45	1.45	1.46	1.44
1872.	7.21	1.70	1.45	1.45	1.46	1.46	1.43
1903.	7.21	1.79	1.45	1.45	1.45	1.46	1.44
1936.	7.23	1.72	1.46	1.46	1.46	1.46	1.44
2011.	7.21	1.84	1.46	1.45	1.46	1.46	1.44
2077.	7.21	1.80	1.45	1.45	1.45	1.46	1.44
2120.	7.22	1.63	1.45	1.40	1.46	1.46	1.44
2159.	7.22	1.63	1.45	1.45	1.45	1.45	1.44
2190.	7.23	1.71	1.46	1.45	1.45	1.45	1.44
2227.	7.33	2.26	1.48	1.47	1.46	1.48	1.46
2269.	7.29	2.24	1.46	1.47	1.46	1.47	1.46
2301.	7.29	2.26	1.47	1.46	1.40	1.47	1.46
7047.	7.20	1.82	1.45	1.45	1.45	1.45	1.43

END OF
CHARGE

PACK NO. 239
GUE COUL 3.6 A.H.

DEPTH OF DISCHARGE 40
PERCENT OF RECHARGE

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE PACK CURRENT			CELL VOLTAGES										
NO.	VOLTAGE	2.88	1	2	3	4	5	1	2	3	4	5	
1984.	10.83	2.86	1.09	1.11	1.08	1.08	1.07	1.09	1.06	1.08	1.07	1.07	END OF DISCHARGE
2020.	10.30	2.84	1.01	1.06	1.00	1.07	1.00	1.08	1.04	1.05	.99	.98	
2027.	9.22	2.85	1.07	1.09	1.09	1.01	.99	.20	1.05	1.02	1.06	1.04	
2137.	9.83	2.86	1.10	1.13	1.10	1.07	1.08	.00	1.09	1.10	1.08	1.08	
2173.	9.34	2.85	1.05	1.05	1.05	1.03	1.04	.00	1.04	1.02	1.04	1.04	
2203.	9.14	2.81	1.01	1.04	1.01	1.03	1.00	.00	1.04	1.02	.99	.99	
2246.	9.28	2.82	1.02	1.04	1.03	1.04	1.03	.00	1.04	1.03	1.02	1.01	
2285.	9.19	2.81	1.01	1.03	1.02	1.02	1.02	.00	1.03	1.05	1.00	1.00	
2316.	9.01	2.81	.99	1.01	1.00	1.01	.99	.00	1.02	1.00	.97	.98	
2353.	9.20	2.83	1.04	1.02	1.01	1.01	1.00	.00	1.02	1.01	.99	1.05	
2395.	9.26	2.79	1.01	1.04	1.02	1.02	1.03	.00	1.04	1.06	1.02	1.00	END OF CHARGE
2427.	9.09	2.78	.99	1.02	1.00	1.02	1.01	.00	1.03	1.05	1.00	.98	
		3.60											
1984.	14.33	.34	1.42	1.43	1.42	1.47	1.42	1.47	1.42	1.41	1.41	1.41	
2020.	14.93	.81	1.46	1.47	1.47	1.58	1.45	1.60	1.49	1.46	1.45	1.45	
2027.	14.37	.26	1.42	1.43	1.43	1.48	1.42	1.46	1.43	1.42	1.42	1.41	
2137.	12.92	.31	1.43	1.45	1.44	1.48	1.42	.00	1.44	1.43	1.42	1.42	
2173.	12.96	.34	1.43	1.44	1.43	1.49	1.42	.00	1.43	1.43	1.42	1.42	
2203.	12.95	.26	1.43	1.44	1.44	1.49	1.43	.00	1.43	1.43	1.42	1.42	
2246.	12.97	.26	1.43	1.44	1.44	1.49	1.43	.00	1.45	1.45	1.39	1.42	
2285.	12.95	.27	1.43	1.44	1.43	1.49	1.43	.00	1.43	1.42	1.42	1.42	
2316.	12.95	.27	1.43	1.44	1.43	1.49	1.43	.00	1.43	1.42	1.42	1.42	
2353.	12.94	.26	1.42	1.44	1.43	1.49	1.43	.00	1.43	1.42	1.42	1.41	
2395.	12.93	.24	1.43	1.44	1.42	1.48	1.43	.00	1.43	1.42	1.43	1.42	
2427.	12.93	.21	1.43	1.44	1.43	1.48	1.43	.00	1.43	1.42	1.43	1.42	

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COULOMETER
SONOTONE

5 A.H.

DEPTH OF DISCHARGE 30

ORBIT PERIOD 90 MINUTES

TEST TEMPERATURE 25° C

CYCLE NO.	PACK VOLTAGE	CURRENT	CIM	CELL VOLTAGES				
				1	2	3	4	5
8040	5.40	3.00	-0.152	1.12	1.10	1.13	1.13	1.10
8080	5.43		-0.152	1.13	1.10	1.13	1.14	1.11
8120	5.15		-0.204	1.08	1.07	1.10	1.10	1.06
8160	5.40		-0.150	1.13	1.09	1.12	1.13	1.09
8200	5.50		-0.097	1.13	1.10	1.14	1.14	1.10
8240	5.40		-0.105	1.11	1.08	1.12	1.12	1.09
8280	5.31		-0.157	1.10	1.08	1.12	1.12	1.09
8320	5.36		-0.159	1.12	1.09	1.12	1.13	1.09
8360	5.30		-0.181	1.12	1.09	1.13	1.13	1.09
8400	5.67		-0.170	1.19	1.14	1.14	1.18	1.18
8420	5.66		-0.155	1.18	1.13	1.18	1.18	1.17

END OF DISCHARGE

TIME TO
START OF
TRICKLE
CHARGE

8040	8.00	0.30	+0.887	1.42	1.43	1.42	1.42	1.42	28:36
8080			0.879	1.43	1.43	1.42	1.42	1.42	28:35
8120			0.875	1.43	1.43	1.42	1.42	1.42	29:58
8160			0.885	1.42	1.42	1.42	1.42	1.42	29:22
8200			0.839	1.42	1.43	1.42	1.42	1.43	28:12
8240			0.929	1.43	1.43	1.42	1.42	1.42	28:20
8280			0.862	1.43	1.43	1.42	1.43	1.43	28:32
8320			0.870	1.43	1.43	1.42	1.42	1.42	28:39
8360			0.863	1.43	1.43	1.42	1.43	1.42	28:34
8400			0.942	1.41	1.41	1.41	1.41	1.41	28:47
8420			0.919	1.42	1.42	1.42	1.42	1.42	28:32

END OF CHARGE

041

SHERFEY
GULTON 3.6 A.H.

DEPTH OF DISCHARGE 40
PERCENT OF RECHARGE 60

TEST TEMPERATURE 25° C
ORBIT PERIOD 90 MINUTES

CYCLE NO.	PACK VOLTAGE	CURRENT	CELL VOLTAGES									
			1	2	3	4	5	6	7	8	9	10
3320	9.17	2.88	1.15		1.	1.20	1.20	1.19	1.20	1.12	1.20	0.85
3361	8.73		1.11			1.15	1.16	1.15	1.15	1.07	1.14	0.79
3400	9.22		1.17			1.22	1.21	1.20	1.21	1.18	1.21	0.84
3440	9.04		1.14			1.20	1.20	1.18	1.20	1.13	1.19	0.81
3481	7.90		1.10			1.18	1.18	1.16	1.14	1.09	1.18	
3521	8.40		1.17			1.22	1.21	1.19	1.21	1.18	1.21	
3560	8.21		1.15			1.20	1.20	1.16	1.20	1.12	1.20	
3601	7.86		1.09			1.16	1.16	1.10	1.15	1.05	1.15	
3640	8.34		1.16			1.22	1.21	1.18	1.21	1.17	1.20	
3680	8.17		1.13			1.20	1.19	1.14	1.19	1.12	1.19	
3721	7.84		1.08			1.16	1.16	1.08	1.16	1.05	1.16	
3760	8.33		1.16			1.22	1.21	1.18	1.21	1.16	1.21	

END OF
DISCHARGE

3320	11.97	2.16	1.50			1.46	1.46	1.47	1.46	1.50	1.47	1.63
3361	11.86		1.49			1.45	1.45	1.46	1.45	1.49	1.46	1.59
3400	12.70		1.63			1.55	1.57	1.58	1.56	1.57	1.63	1.60
3440	11.94		1.50			1.46	1.46	1.47	1.46	1.50	1.47	1.60
3481	10.38		1.50			1.48	1.47	1.45	1.44	1.50	1.49	
3521	11.49		1.63			1.69	1.61	1.60	1.64	1.64	1.68	
3560	10.38		1.50			1.46	1.47	1.49	1.47	1.52	1.47	
3601	10.32		1.49			1.45	1.46	1.49	1.47	1.51	1.47	
3640	11.16		1.64			1.57	1.56	1.58	1.58	1.60	1.64	
3680	10.42		1.52			1.46	1.47	1.50	1.47	1.52	1.47	
3721	10.35		1.50			1.45	1.46	1.49	1.46	1.51	1.46	
3760	11.29		1.65			1.60	1.59	1.59	1.59	1.61	1.65	

END OF
CHARGE

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PACK NO. 59
GULTON 6 A.H. 3RD ELECTRODE R 10 10 10 10 10

DEPTH OF DISCHARGE 25

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.00	3RD ELECT 1	2	VOLTAGES 3	4	5	1	2	3	4	5	
5077.	4.84	3.03	.160	.098	.000	.116	.145	1.22	1.22	.01	1.22	1.21	1.499 END OF
5135.	4.83	3.04	.153	.097	.004	.113	.148	1.22	1.21	.00	1.21	1.21	.000 DISCHARGE
5243.	4.82	3.01	.162	.099	.002	.112	.149	1.22	1.22	.01	1.21	1.21	.000
5315.	4.80	3.08	.156	.099	.000	.110	.148	1.21	1.21	.01	1.21	1.21	.000
5392.	4.83	3.01	.161	.106	.009	.112	.143	1.22	1.22	.01	1.22	1.21	.000
5454.	4.82	3.10	.159	.100	.013	.113	.142	1.22	1.21	.01	1.21	1.21	.000
5493.	4.82	3.06	.162	.100	.011	.119	.142	1.22	1.21	.01	1.21	1.21	.000
5525.	4.82	3.05	.164	.100	.012	.120	.136	1.22	1.21	.01	1.21	1.21	.000
5077.	6.28	1.77	.122	.123	.000	.136	.162	1.54	1.62	.01	1.57	1.56	TRIP POINT
5135.	6.27	1.70	.121	.121	.000	.133	.161	1.55	1.61	.01	1.57	1.56	
5243.	5.77	.10	.136	.138	.002	.162	.185	1.45	1.45	.01	1.45	1.45	
5315.	6.05	.55	.120	.112	.000	.138	.162	1.51	1.53	.01	1.52	1.52	
5392.	5.71	.06	.133	.148	.008	.168	.185	1.44	1.44	.01	1.44	1.44	
5454.	5.85	.09	.126	.123	.012	.159	.169	1.46	1.47	.01	1.47	1.47	
5493.	5.72	.06	.142	.138	.012	.165	.180	1.44	1.43	.01	1.44	1.44	
5525.	5.71	.05	.142	.140	.012	.170	.184	1.44	1.43	.01	1.43	1.44	
5077.	5.67	.06	.140	.133	.003	.158	.182	1.43	1.42	.01	1.43	1.42	AH IN
5135.	5.67	.06	.144	.133	.003	.152	.182	1.43	1.42	.01	1.43	1.42	1.627 END OF
5243.	5.70	.07	.147	.139	.004	.159	.189	1.43	1.43	.01	1.43	1.43	.000 CHARGE
5315.	5.69	.06	.145	.137	.002	.153	.180	1.43	1.43	.00	1.43	1.43	.000
5392.	5.67	.05	.139	.146	.006	.162	.188	1.42	1.42	.01	1.43	1.43	.000
5454.	5.65	.05	.147	.135	.013	.161	.180	1.42	1.42	.01	1.42	1.42	.000
5493.	5.68	.05	.149	.134	.013	.159	.177	1.43	1.42	.01	1.43	1.43	.000
5525.	5.67	.05	.150	.135	.012	.165	.182	1.43	1.42	.01	1.42	1.42	.000

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PACK NO. 71 DEPTH OF DISCHARGE 40 TEST TEMPERATURE 0 C
 GULTON 6 A.H. 3RD ELECTRODE R 10 10 10 10 10 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 4.80	3RD ELECT 1	2	VOLTAGES 3	4	5	1	2	3	4	5	
5174.	3.47	4.85	.104	.085	.119	.003	.000	1.19	1.19	1.18	.05	.00	.000 END OF
5246.	3.44	4.79	.109	.097	.116	.001	.000	1.18	1.18	1.17	.06	.00	.000 DISCH.
5323.	3.54	4.78	.096	.092	.104	.008	.000	1.19	1.19	1.18	.01	.00	.000
5385.	3.53	4.76	.109	.092	.113	.008	.000	1.18	1.18	1.18	.01	.00	.000
5424.	3.51	4.82	.119	.101	.127	.009	.000	1.18	1.18	1.17	.01	.00	.000
5174.	4.25	.05	.146	.152	.172	.003	.000	1.43	1.43	1.42	.01	.00	TRIP
5246.	4.27	.04	.148	.163	.161	.001	.000	1.39	1.43	1.00	.01	.00	POINT
5323.	4.22	.05	.174	.181	.184	.005	.000	1.41	1.41	1.41	.01	.00	
5385.	4.21	.05	.190	.182	.196	.007	.000	1.41	1.41	1.41	.01	.00	
5424.	4.23	.05	.179	.180	.196	.008	.000	1.42	1.41	1.41	.01	.00	
5174.	4.20	.05	.139	.126	.160	.006	.000	1.41	1.41	1.41	.01	.00	AH IN
5246.	4.21	.04	.141	.138	.153	.001	.000	1.41	1.41	1.41	.01	.00	.000 END OF
5323.	4.17	.04	.153	.149	.159	.007	.000	1.40	1.40	1.40	.01	.00	.000 CHARGE
5385.	4.15	.04	.165	.152	.170	.007	.000	1.39	1.39	1.39	.01	.00	.000
5424.	4.17	.04	.161	.152	.175	.008	.000	1.40	1.40	1.40	.01	.00	.000

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PACK NO. 11 DEPTH OF DISCHARGE 40 TEST TEMPERATURE 25 C
 GULTON 6 A.H. 3RD ELECTRODE R 24 24 10 8 24 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 4.80	3RD ELECT 1	VOLTAGES 2	3	4	5	1	2	3	4	5	
6316.	4.38	4.77	.202	.024	.000	.163	.366	1.12	1.09	.00	1.08	1.11	.000 END C
6424.	4.34	4.79	.243	.054	.000	.225	.349	1.12	1.08	.00	1.09	1.08	.000 DISCH
6496.	4.38	4.75	.236	.002	.000	.281	.340	1.09	1.11	.00	1.14	1.06	.000
6573.	4.58	4.79	.219	.006	.000	.280	.346	1.16	1.16	.00	1.16	1.14	.000
6635.	4.30	4.73	.212	.029	.000	.230	.336	1.09	1.06	.00	1.11	1.06	.000
6665.	4.55	4.77	.213	.021	.000	.259	.360	1.15	1.14	.00	1.15	1.14	.000
6697.	4.47	4.76	.217	.027	.000	.250	.312	1.14	1.12	.00	1.12	1.12	.000
6316.	6.22	2.73	.228	.109	.000	.166	.304	1.55	1.57	.00	1.56	1.56	TRIP
6424.	5.55	.12	.260	.027	.000	.169	.433	1.40	1.40	.00	1.40	1.39	POINT
6496.	5.55	.12	.258	.065	.000	.244	.430	1.39	1.39	.00	1.40	1.38	
6573.	5.54	.10	.249	.068	.000	.241	.442	1.39	1.38	.00	1.40	1.39	
6635.	5.60	.14	.230	.031	.000	.219	.436	1.41	1.40	.00	1.42	1.40	
6665.	5.53	.09	.243	.046	.000	.216	.438	1.40	1.38	.00	1.40	1.38	
6697.	5.63	.11	.226	.039	.000	.215	.446	1.42	1.40	.00	1.42	1.41	
6316.	5.53	.07	.234	.059	.000	.143	.422	1.39	1.39	.00	1.39	1.38	AH IN
6424.	5.51	.09	.259	.029	.000	.162	.419	1.39	1.38	.00	1.39	1.38	.000 END O
6496.	5.55	.12	.258	.065	.000	.244	.430	1.39	1.39	.00	1.40	1.38	.000 CHARG
6573.	5.47	.08	.246	.065	.000	.228	.448	1.38	1.37	.00	1.39	1.37	.000
6635.	5.60	.14	.230	.031	.000	.219	.436	1.41	1.40	.00	1.42	1.40	.000
6665.	5.47	.07	.239	.042	.000	.203	.422	1.38	1.37	.00	1.39	1.37	.000
6697.	5.50	.07	.238	.042	.000	.209	.426	1.39	1.37	.00	1.39	1.37	.000

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PACK NO. 23 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 25 C
 GULTON 6 A.H. 3RD ELECTRODE R 12 18 20 29 24 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.00	3RD ELECT VOLTAGES					CELL VOLTAGES						
			1	2	3	4	5	1	2	3	4	5		
6241.	5.88	2.97	.154	.164	.164	.195	.294	1.18	1.19	1.18	1.19	1.18	1.494	END OF
6299.	5.81	3.02	.152	.163	.159	.179	.288	1.18	1.17	1.17	1.17	1.17	.000	DISCHARGE
6407.	5.78	3.06	.159	.176	.170	.195	.283	1.17	1.17	1.17	1.16	1.16	.000	
6479.	5.78	3.12	.162	.181	.159	.190	.266	1.17	1.17	1.16	1.16	1.16	.000	
6556.	5.84	3.02	.156	.179	.169	.192	.291	1.18	1.18	1.18	1.18	1.17	.000	
6618.	5.82	3.10	.156	.170	.164	.179	.269	1.18	1.17	1.17	1.17	1.17	.000	
6657.	5.80	3.10	.156	.172	.168	.172	.274	1.17	1.17	1.17	1.16	1.16	.000	
6689.	5.81	3.08	.158	.172	.160	.178	.258	1.18	1.17	1.17	1.16	1.17	.000	
6241.	7.05	.03	.206	.219	.230	.251	.342	1.42	1.42	1.42	1.42	1.42		TRIP
6299.	7.34	1.85	.202	.215	.228	.239	.295	1.49	1.48	1.47	1.46	1.48		POINT
6407.	6.96	.04	.224	.246	.250	.272	.381	1.40	1.40	1.40	1.40	1.40		
6479.	7.01	.03	.232	.255	.242	.266	.372	1.41	1.41	1.41	1.41	1.40		
6556.	6.93	.00	.212	.241	.239	.262	.381	1.39	1.40	1.40	1.40	1.39		
6618.	7.00	.03	.218	.240	.242	.250	.381	1.41	1.41	1.41	1.41	1.41		
6657.	6.99	.03	.221	.240	.245	.243	.379	1.41	1.41	1.41	1.40	1.40		
6689.	7.00	.03	.221	.239	.237	.249	.380	1.41	1.41	1.41	1.40	1.41		
6241.	6.89	.02	.206	.221	.229	.258	.380	1.38	1.39	1.39	1.39	1.38	1.795	END OF
6299.	6.89	.02	.198	.220	.225	.244	.373	1.38	1.38	1.38	1.39	1.38	.000	CHARGE
6407.	6.88	.04	.212	.239	.242	.263	.369	1.39	1.39	1.39	1.39	1.38	.000	
6479.	6.90	.02	.215	.246	.234	.258	.363	1.38	1.39	1.39	1.39	1.38	.000	
6556.	6.91	.00	.205	.236	.235	.255	.380	1.39	1.39	1.39	1.39	1.39	.000	
6618.	6.91	.00	.210	.232	.229	.242	.365	1.39	1.39	1.39	1.39	1.39	.000	
6657.	6.00	.03	.212	.233	.235	.235	.366	1.39	1.39	1.39	1.39	1.39	.000	
6689.	6.91	.02	.210	.232	.225	.240	.363	1.39	1.39	1.39	1.39	1.39	.000	

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PACK NO. 35 DEPTH OF DISCHARGE 15 TEST TEMPERATURE 40 C
 GULTON 6 A.H. 3RD ELECTRODE R 47 47 47 47 47 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 1.80	3RD ELECT 1	2	VOLTAGES 3	4	5	1	2	3	4	5	
4238.	5.64	1.85	.120	.081	.085	.153	.179	1.13	1.13	1.13	1.15	1.14	.913 END OF
4404.	5.74	1.80	.149	.082	.089	.159	.205	1.15	1.16	1.15	1.16	1.16	.000 DISCHARGE
4476.	5.55	1.83	.134	.077	.079	.146	.196	1.10	1.11	1.10	1.13	1.14	.000
4553.	5.69	1.89	.137	.093	.101	.159	.200	1.15	1.15	1.15	1.16	1.15	.000
4615.	5.75	1.87	.139	.096	.108	.166	.197	1.16	1.16	1.16	1.16	1.16	.000
4654.	5.81	1.78	.139	.100	.110	.169	.195	1.17	1.17	1.17	1.17	1.17	.000
4686.	5.65	1.88	.132	.092	.103	.159	.179	1.13	1.13	1.13	1.14	1.14	.000
4238.	6.99	.13	.233	.181	.182	.280	.303	1.40	1.41	1.40	1.41	1.41	
4404.	6.90	.07	.278	.178	.180	.287	.399	1.39	1.39	1.39	1.39	1.39	
4476.	6.88	.06	.272	.186	.181	.370	.412	1.38	1.39	1.38	1.38	1.38	TRIP
4553.	6.97	.08	.249	.188	.188	.284	.332	1.40	1.40	1.40	1.41	1.40	POINT
4615.	6.98	.07	.241	.188	.200	.290	.345	1.40	1.40	1.41	1.40	1.40	
4654.	6.94	.06	.255	.202	.212	.366	.404	1.40	1.40	1.40	1.40	1.40	
4686.	6.97	.06	.248	.195	.204	.299	.366	1.40	1.40	1.40	1.40	1.40	
4238.	6.82	.06	.270	.214	.212	.423	.412	1.37	1.37	1.37	1.37	1.37	AH IN
4404.	6.81	.06	.282	.182	.187	.426	.416	1.37	1.37	1.37	1.37	1.37	1.177 END OF
4476.	6.77	.05	.276	.190	.186	.422	.414	1.36	1.36	1.36	1.36	1.36	.000 CHARGE
4553.	6.85	.06	.264	.203	.202	.430	.417	1.38	1.38	1.38	1.38	1.38	.000
4615.	6.85	.05	.268	.210	.219	.435	.418	1.38	1.38	1.38	1.38	1.38	.000
4654.	6.85	.05	.267	.212	.221	.432	.412	1.38	1.38	1.38	1.37	1.37	.000
4686.	6.85	.05	.263	.212	.221	.436	.416	1.38	1.38	1.38	1.37	1.38	

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PACK NO. 47 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 40 C
 GULTON 6 A.H. 3RD ELECTRODE R 11 11 12 11 11 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 3.00	3RD ELECT VOLTAGES					CELL VOLTAGES						
			1	2	3	4	5	1	2	3	4	5		
4908.	- 5.67	2.96	.112	.125	.134	.097	.098	1.16	1.14	1.15	1.14	1.13	1.488	END OF
5074.	5.69	2.96	.119	.139	.138	.093	.087	1.18	1.14	1.16	1.14	1.11	.000	DISCHARGE
5146.	5.40	2.92	.102	.145	.122	.074	.057	1.14	1.08	1.12	1.09	1.01	.000	
5216.	4.41	2.50	.174	.152	.103	.065	.000	1.13	1.10	1.13	1.10	.01	.000	
5223.	4.22	2.96	.169	.142	.083	.062	.006	1.10	1.04	1.07	1.08	.02	.000	
5271.	3.25	2.59	.206	.000	.045	.124	.000	1.13	.00	1.03	1.13	.00	.000	
5310.	3.35	2.95	.190	.000	.129	.149	.000	1.11	.00	1.15	1.11	.00	.000	

4908.	6.93	.08	.270	.239	.427	.238	.253	1.40	1.40	1.39	1.39	1.39		TRIP
5074.	6.79	.06	.267	.228	.408	.205	.195	1.38	1.37	1.37	1.37	1.35		POINT
5146.	6.74	.05	.253	.236	.403	.171	.109	1.37	1.36	1.36	1.35	1.34		

														AH IN	
4908.	6.78	.05	.247	.209	.393	.208	.223	1.37	1.37	1.37	1.36	1.36	2.359	END OF	
5074.	6.79	.06	.267	.228	.408	.205	.195	1.38	1.37	1.37	1.37	1.35	.000	CHARGE	
5146.	6.74	.05	.253	.236	.403	.171	.109	1.37	1.36	1.36	1.35	1.34	.000		
5216.	5.67	2.48	.296	.239	.259	.139	.008	1.42	1.41	1.42	1.43	.03	.000		
5223.	5.73	3.06	.278	.229	.179	.136	.012	1.43	1.43	1.43	1.46	.04	.000		
5271.	4.20	2.52	.298	.000	.095	.239	.000	1.41	.00	1.40	1.40	.00	.000		
5310.	4.26	3.03	.280	.000	.242	.276	.000	1.42	.00	1.42	1.42	.00	.000		

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PACK NO. 60 DEPTH OF DISCHARGE 25 TEST TEMPERATURE 0 C
 G.E. 12 A.H. 3RD ELECTRODE R 3 3 3 3 3 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK CURRENT		3RD ELECT VOLTAGES					CELL VOLTAGES						
	VOLTAGE	6.00	1	2	3	4	5	1	2	3	4	5		
AH OUT														
2760.	6.01	6.05	.150	.115	.038	.023	.032	1.21	1.22	1.21	1.22	1.20	.000	END OF
2818.	6.00	5.98	.136	.104	.030	.016	.031	1.21	1.21	1.20	1.21	1.20	.000	DISCHARGE
3029.	6.23	6.04	.262	.148	.027	.012	.000	1.21	1.22	1.21	1.20	1.19	.000	
3112.	6.17	6.04	.351	.222	.080	.052	.052	1.24	1.24	1.23	1.23	1.23	.000	
3174.	6.07	6.00	.229	.142	.042	.029	.022	1.23	1.23	1.22	1.22	1.22	.000	
2760.	7.33	1.03	.185	.223	.084	.432	.459	1.46	1.48	1.47	1.48	1.48		TRIP
2818.	7.47	2.26	.229	.238	.102	.389	.378	1.49	1.51	1.50	1.50	1.50		POINT
3029.	7.42	.86	.163	.123	.059	.476	.475	1.46	1.47	1.47	1.51	1.51		
3112.	7.23	.95	.251	.184	.100	.404	.322	1.45	1.45	1.45	1.45	1.46		
3174.	7.30	.95	.407	.300	.208	.413	.331	1.47	1.47	1.47	1.46	1.46		
AH IN														
2760.	7.54	1.05	.777	.699	.694	.672	.690	1.52	1.53	1.52	1.50	1.50	.000	END OF
2818.	7.53	.95	.750	.657	.639	.632	.622	1.52	1.53	1.52	1.50	1.50	.000	CHARGE
3029.	7.47	.95	.790	.723	.701	.672	.683	1.50	1.52	1.50	1.48	1.48	.000	
3112.	7.42	.96	.793	.706	.720	.718	.708	1.50	1.51	1.50	1.47	1.48	.000	
3174.	7.41	.95	.760	.650	.652	.675	.631	1.49	1.51	1.49	1.47	1.48	.000	

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PACK NO. 48 DEPTH OF DISCHARGE 40 TEST TEMPERATURE 0 C
 G.E. 12 A.H. 3RD ELECTRODE R 3 3 3 3 3 ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 9.60	3RD ELECT VOLTAGES					CELL VOLTAGES					
			1	2	3	4	5	1	2	3	4	5	
AH OUT													
2097.	5.77	9.39	.105	.121	.015	.010	.028	1.16	1.16	1.17	1.17	1.17	.000 END OF
2154.	5.77	9.40	.105	.119	.016	.009	.028	1.16	1.15	1.17	1.17	1.16	.000 DISCHAF
2366.	5.89	9.49	.118	.132	.013	.006	.022	1.17	1.17	1.18	1.18	1.18	.000
2450.	6.09	6.03	.280	.178	.058	.032	.034	1.22	1.23	1.22	1.22	1.21	.000
2509.	5.76	9.61	.108	.117	.032	.014	.012	1.15	1.14	1.17	1.17	1.17	.000
2097.	7.19	.47	.249	.237	.225	.492	.159	1.45	1.44	1.44	1.45	1.44	TRIP
2154.	7.45	3.08	.252	.239	.270	.424	.173	1.48	1.47	1.50	1.51	1.52	POINT
2366.	7.61	6.09	.234	.242	.138	.426	.105	1.50	1.50	1.54	1.54	1.54	
2450.	7.45	3.78	.238	.225	.243	.432	.142	1.48	1.47	1.50	1.50	1.51	
2509.	7.42	3.55	.246	.230	.252	.436	.136	1.47	1.47	1.50	1.50	1.51	
AH IN													
2097.	7.18	.48	.251	.229	.412	.188	.446	1.43	1.43	1.45	1.45	1.46	.000 END OF
2154.	7.17	.46	.247	.225	.406	.185	.439	1.43	1.42	1.45	1.44	1.46	.000 CHARGE
2366.	7.15	.44	.280	.245	.365	.214	.438	1.43	1.43	1.44	1.44	1.45	.000
2450.	7.16	.46	.248	.222	.400	.183	.438	1.43	1.43	1.45	1.43	1.46	.000
2509.	7.17	.51	.250	.220	.400	.179	.439	1.43	1.43	1.44	1.44	1.46	.000

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PACK NO. 92
SONOTONC 5 A.H.

DEPTH OF DISCHARGE 25
STABISTER

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.50	1	2	3	4	5
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3103.	5.52	2.47	1.09	1.11	1.11	1.11	1.09
3132.	5.50	2.49	1.08	1.10	1.10	1.11	1.08
3168.	5.49	2.48	1.09	1.10	1.11	1.11	1.08
3199.	5.49	2.48	1.09	1.10	1.11	1.11	1.08
3232.	5.49	2.48	1.09	1.10	1.10	1.11	1.09
3307.	5.53	2.48	1.10	1.11	1.11	1.12	1.09
3343.	5.46	2.49	1.08	1.10	1.10	1.10	1.08
3373.	5.46	2.48	1.08	1.10	1.09	1.10	1.07
3416.	5.51	2.47	1.10	1.11	1.10	1.11	1.08
3455.	5.49	2.48	1.07	1.08	1.09	1.11	1.11
3486.	5.20	2.48	1.08	1.09	1.11	1.12	1.12
3523.	5.54	2.49	1.09	1.10	1.11	1.11	1.12
3565.	5.53	2.48	1.08	1.10	1.11	1.11	1.11
3597.	5.54	2.48	1.09	1.10	1.11	1.12	1.11

END OF
DISCHARGE

		5.00					
3103.	7.92	5.02	1.56	1.56	1.57	1.61	1.62
3132.	7.93	5.02	1.56	1.56	1.57	1.61	1.62
3168.	7.91	5.02	1.56	1.56	1.57	1.60	1.62
3199.	7.91	5.03	1.56	1.56	1.57	1.60	1.61
3232.	7.92	5.03	1.56	1.56	1.57	1.60	1.62
3307.	7.92	5.02	1.57	1.57	1.57	1.60	1.61
3343.	7.91	5.02	1.56	1.56	1.57	1.60	1.62
3373.	7.92	5.04	1.56	1.56	1.57	1.60	1.62
3416.	7.89	5.04	1.56	1.56	1.56	1.60	1.62
3455.	7.57	5.03	1.50	1.50	1.50	1.50	1.57
3486.	7.54	5.02	1.50	1.50	1.50	1.51	1.57
3523.	7.52	5.03	1.49	1.48	1.49	1.50	1.56
3565.	7.57	5.02	1.50	1.50	1.50	1.51	1.56
3597.	7.55	5.03	1.49	1.50	1.50	1.51	1.56

END OF
CHARGE

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PACK NO. 322
SONOTONC 5 A.H.

DEPTH OF DISCHARGE 40
STABISTER

TEST TEMPERATURE 0
ORBIT PERIOD 90 MIN.

CYCLE PACK CURRENT
NO. VOLTAGE 4.00 1 2 3 4 5

2916. -4.10 3.98 1.02 1.04 .00 1.02 1.05
2988. 4.10 3.98 1.02 1.05 .00 1.02 1.05
3095. 4.09 4.04 .99 1.05 .00 1.03 1.06
3167. 4.00 4.01 1.01 1.05 .00 1.03 1.06

3237. 3.96 4.01 .99 1.00 .00 1.00 1.00
3268. 3.60 4.02 .97 1.01 .00 1.00 .99
3303. 3.97 4.01 .99 1.03 .00 1.00 1.00
3333. 4.14 4.04 1.02 1.08 .00 1.02 1.05
3392. 3.94 4.00 .98 1.01 .00 .99 .99

5.00
2916. 6.30 4.99 1.56 1.55 .00 1.57 1.58
2988. 6.28 5.03 1.57 1.55 .00 1.57 1.57
3095. 6.28 5.00 1.57 1.55 .00 1.57 1.58
3167. 6.28 4.98 1.58 1.55 .00 1.57 1.57

3237. 6.21 5.01 1.56 1.51 .00 1.57 1.52
3268. 6.18 5.00 1.57 1.51 .00 1.57 1.52
3303. 6.16 5.02 1.57 1.50 .00 1.56 1.52
3333. 6.13 5.01 1.53 1.48 .00 1.55 1.51
3392. 6.20 5.02 1.56 1.51 .00 1.58 1.52

END OF
DISCHARGE

END OF
CHARGE

151

PACK NO. 273
SONOTONE 5 A.F

DEPTH OF DISCHARGE 25
STABISTER

TEST TEMPERATURE 25 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.50	1	2	3	4	5
3473.	3.20	2.47	.00	.00	1.07	1.10	1.10
3503.	2.87	2.40	.00	.00	.97	1.03	.94
3538.	2.89	2.40	.00	.00	1.02	1.07	.88
3569.	2.77	2.30	.00	.00	1.01	1.07	.77
3602.	2.79	2.33	.00	.00	1.01	1.07	.78
3661.	2.78	2.33	.00	.00	.97	1.04	.85
3723.	2.88	2.40	.00	.00	.99	1.06	.92
3742.	1.74	2.43	.00	.00	.96	1.04	.16
		5.00					
3473.	4.40	5.05	.00	.00	1.44	1.43	1.45
3503.	4.37	5.10	.00	.00	1.43	1.42	1.41
3538.	4.41	5.06	.00	.00	1.44	1.42	1.41
3569.	4.41	5.08	.00	.00	1.43	1.42	1.41
3602.	4.42	5.08	.00	.00	1.43	1.42	1.41
3661.	4.42	5.12	.00	.00	1.42	1.42	1.41
3723.	4.43	5.12	.00	.00	1.43	1.42	1.41
3742.	4.44	5.00	.00	.00	1.43	1.43	1.42

END OF
DISCHARGE

END OF
CHARGE

152

PACK NO. 299
SONOTONE 5 A.H.

DEPTH OF DISCHARGE 25
STABISTER

TEST TEMPERATURE 40 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGE	CURRENT 2.50	1	2	3	4	5
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3251.	4.03	2.54	1.14	1.07	1.06	.00	1.08
3286.	4.24	2.50	1.13	1.05	1.02	.00	1.07
3361.	4.08	2.48	1.12	1.02	.96	.00	1.02

END OF
DISCHARGE

		5.00					
3251.	5.89	5.23	1.48	1.46	1.47	.00	1.46
3286.	5.90	4.97	1.48	1.47	1.46	.00	1.47
3361.	5.90	4.94	1.48	1.47	1.46	.00	1.47

END OF
CHARGE

153

PACK NO. 174
GU 1.25 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE

TEST TEMPERATURE -20 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT .63	1	2	3	4	5
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115.	7.56	.00	1.51	1.51	1.52	1.52	1.53
146.	7.57	.65	1.51	1.50	1.50	1.51	1.53
220.	7.65	.63	1.54	1.53	1.54	1.53	1.55
286.	7.54	.64	1.50	1.50	1.49	1.50	1.54
329.	7.66	.64	1.53	1.53	1.53	1.54	1.57
400.	7.64	.64	1.53	1.52	1.53	1.53	1.55
437.	7.62	.63	1.53	1.51	1.53	1.53	1.55
464.	7.47	.62	1.50	1.49	1.49	1.50	1.52
531.	7.52	.63	1.51	1.50	1.50	1.51	1.53
548.	7.54	.63	1.51	1.50	1.50	1.50	1.51
562.	7.53	.63	1.51	1.50	1.50	1.50	1.52
594.	7.53	.62	1.51	1.50	1.51	1.51	1.53

END OF
DISCHARGE

1.25

115.	9.30	.00	1.92	1.88	1.84	1.86	1.83
146.	9.08	1.00	1.83	1.82	1.80	1.80	1.81
220.	9.05	1.00	1.86	1.81	1.80	1.78	1.83
286.	9.39	1.00	1.94	1.84	1.83	1.83	1.92
329.	9.34	1.00	1.91	1.84	1.85	1.84	1.94
400.	8.92	1.00	1.82	1.74	1.79	1.76	1.84
437.	8.83	1.00	1.80	1.72	1.78	1.74	1.82
464.	8.93	.99	1.89	1.75	1.76	1.76	1.79
531.	8.76	.99	1.77	1.73	1.76	1.74	1.78
548.	8.85	.98	1.79	1.73	1.76	1.73	1.78
562.	8.78	.99	1.77	1.73	1.76	1.74	1.78
594.	8.83	.98	1.81	1.72	1.77	1.74	1.79

END OF
CHARGE

154

PACK NO. 388
GU 1.25 A.H.

DEPTH OF DISCHARGE 60
PERCENT OF RECHARGE

TEST TEMPERATURE -20 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT 1.5	CELL VOLTAGES				
			1	2	3	4	5
74.	7.58	.64	1.52	1.54	1.50	1.53	1.52
109.	7.64	.64	1.53	1.55	1.51	1.53	1.51
138.	7.65	.63	1.53	1.54	1.51	1.53	1.51
152.	7.65	.64	1.53	1.54	1.51	1.53	1.51
184.	7.65	.63	1.53	1.54	1.51	1.53	1.52
		1.25					
74.	9.61	1.01	1.93	1.92	1.92	1.90	1.91
109.	9.50	1.01	1.93	1.88	1.88	1.88	1.91
138.	9.56	1.01	1.93	1.85	1.95	1.87	1.92
152.	9.45	1.01	1.90	1.84	1.93	1.85	1.91
184.	9.39	1.01	1.88	1.82	1.92	1.84	1.91

END OF
DISCHARGE

END OF
ARGE

155

PACK NO. 198
GU 1.25 A.H.

DEPTH OF DISCHARGE 60
PERCENT OF RECHARGE

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT 1.5	1	2	3	4	5
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406.	-6.94	.00	1.39	1.39	1.38	1.39	1.39
437.	5.63	1.50	1.12	1.14	1.13	1.14	1.13
501.	5.65	1.50	1.13	1.14	1.14	1.14	1.13
577.	5.66	1.50	1.13	1.15	1.14	1.14	1.13
620.	5.66	1.51	1.13	1.14	1.15	1.14	1.13
691.	5.62	1.51	1.12	1.13	1.12	1.13	1.13

760.	5.62	1.30	1.12	1.13	1.12	1.13	1.13
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901.	5.60	1.50	1.11	1.13	1.12	1.13	1.12
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END OF
DISCHARGE

156

		1.25					
406.	8.70	.00	1.75	1.76	1.72	1.74	1.71
437.	8.61	1.25	1.74	1.74	1.72	1.73	1.69
501.	8.59	1.25	1.75	1.73	1.71	1.72	1.69
577.	8.61	1.25	1.75	1.74	1.72	1.73	1.70
620.	8.70	1.25	1.76	1.78	1.73	1.75	1.70
691.	8.76	1.25	1.77	1.77	1.74	1.75	1.72

END OF
CHARGE

760.	8.68	1.25	1.76	1.74	1.72	1.73	1.71
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901.	8.72	1.25	1.75	1.76	1.73	1.75	1.71
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PACK NO. 308
GU 1.25 A.H.

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE

TEST TEMPERATURE 0 C
ORBIT PERIOD 90 MIN.

CYCLE NO.	PACK VOLTAGES	CURRENT .63	1	2	3	4	5
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406.	7.24	.00	1.43	1.44	1.44	1.44	1.44
437.	7.21	.62	1.43	1.44	1.45	1.44	1.44
480.	7.52	.97	1.50	1.50	1.49	1.50	1.50
501.	7.26	.62	1.44	1.45	1.45	1.45	1.45
577.	7.12	.62	1.42	1.43	1.44	1.43	1.43
620.	7.25	.63	1.44	1.44	1.45	1.45	1.45
691.	7.26	.63	1.44	1.46	1.47	1.46	1.45
728.	7.26	.62	1.45	1.46	1.47	1.46	1.46
758.	7.26	.62	1.44	1.44	1.46	1.45	1.46
812.	7.23	.62	1.43	1.44	1.44	1.45	1.44
842.	7.21	.62	1.44	1.45	1.46	1.46	1.46
901.	7.23	.62	1.43	1.44	1.45	1.45	1.45

END OF
DISCHARGE

157

		.25					
406.	8.56	.00	1.68	1.71	1.73	1.72	1.71
437.	8.53	1.28	1.68	1.72	1.74	1.72	1.70
480.	7.70	.66	1.54	1.54	1.52	1.54	1.53
501.	8.58	1.27	1.67	1.71	1.74	1.72	1.71
577.	8.54	1.26	1.67	1.72	1.74	1.72	1.70
620.	8.53	1.27	1.67	1.71	1.73	1.71	1.70
691.	8.58	1.26	1.67	1.72	1.75	1.73	1.70
728.	8.54	1.26	1.67	1.72	1.75	1.72	1.70
758.	8.58	1.26	1.68	1.73	1.75	1.73	1.71
812.	8.55	1.25	1.67	1.71	1.73	1.72	1.70
842.	8.53	1.25	1.66	1.71	1.74	1.71	1.70
901.	8.47	1.25	1.66	1.70	1.73	1.71	1.70

END OF
CHARGE

PACK NO. 197
YARDNEY 12 AH AGZN

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 130

TEST TEMPERATURE 0
ORBIT PERIOD 1.5 HRS.

CYCLE PACK CURRENT
NO. VOLTAGE 6.00 1 2 3 4 5

233.	6.67	4.03	1.33	1.33	1.33	1.33	1.33
292.	6.64	4.13	1.33	1.34	1.34	1.33	1.32
359.	6.63	4.10	1.33	1.33	1.34	1.34	1.33
471.	6.63	4.09	1.33	1.33	1.33	1.33	1.33
509.	6.63	4.08	1.33	1.33	1.32	1.33	1.33
541.	6.64	4.09	1.33	1.33	1.32	1.33	1.33
611.	6.54	4.06	1.31	1.32	1.31	1.31	1.31
653.	6.57	4.14	1.32	1.33	1.32	1.32	1.32

END OF
DISCHARGE

		3.90					
233.	8.01	1.08	1.61	1.59	1.59	1.61	1.61
292.	7.86	1.00	1.60	1.56	1.57	1.58	1.56
359.	7.89	1.06	1.60	1.57	1.58	1.59	1.57
471.	7.87	1.03	1.60	1.56	1.57	1.59	1.56
509.	7.86	1.06	1.59	1.55	1.56	1.58	1.57
541.	7.84	1.17	1.59	1.55	1.55	1.56	1.56
611.	7.78	.84	1.56	1.55	1.55	1.56	1.56
653.	7.76	1.14	1.56	1.54	1.55	1.56	1.56

END OF
CHARGE

158

PACK NO. 182
YARDNEY 12 AH AGZN

DEPTH OF DISCHARGE 25
PERCENT OF RECHARGE 130

TEST TEMPERATURE 25
ORBIT PERIOD 1.5 HRS.

CYCLE NO.	PACK VOLTAGE	CURRENT 6.00	1	2	3	4	5
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1141.	5.34	5.90	1.07	1.07	1.06	1.07	1.07
1171.	5.35	5.97	1.07	1.08	1.08	1.08	1.07
1206.	5.35	5.89	1.08	1.08	1.07	1.07	1.07
1237.	5.35	6.09	1.07	1.07	1.07	1.07	1.07
1270.	5.35	6.08	1.07	1.07	1.07	1.07	1.07
1329.	5.36	5.97	1.07	1.07	1.07	1.07	1.07
1381.	5.35	5.91	1.07	1.07	1.07	1.07	1.07
1410.	5.36	5.88	1.08	1.07	1.07	1.07	1.07
1453.	5.33	5.91	1.07	1.07	1.08	1.07	1.07
1492.	5.31	5.82	1.06	1.06	1.06	1.07	1.07
1524.	5.02	5.89	1.06	1.06	1.06	1.06	1.05
1559.	5.30	5.87	1.06	1.07	1.06	1.06	1.06
1634.	5.29	6.00	1.06	1.06	1.06	1.06	1.06

END OF
DISCHARGE

159

		3.90					
1141.	7.80	1.37	1.56	1.56	1.55	1.56	1.56
1171.	7.79	1.48	1.56	1.56	1.57	1.56	1.56
1206.	7.80	1.31	1.56	1.55	1.56	1.56	1.56
1237.	7.80	1.39	1.56	1.55	1.56	1.56	1.56
1270.	7.80	1.42	1.56	1.55	1.56	1.56	1.56
1329.	7.82	1.43	1.56	1.55	1.57	1.56	1.56
1381.	7.81	1.43	1.57	1.55	1.56	1.56	1.56
1410.	7.81	1.27	1.57	1.55	1.56	1.56	1.56
1453.	7.77	1.24	1.56	1.55	1.57	1.56	1.55
1492.	7.66	1.58	1.55	1.53	1.53	1.54	1.53
1524.	7.65	1.57	1.55	1.53	1.53	1.54	1.53
1559.	7.67	1.57	1.55	1.54	1.53	1.54	1.54
1634.	7.60	1.68	1.53	1.52	1.52	1.52	1.52

END OF
CHARGE

PACK NO. 609
DELCO 25 A.H. AG ZN

DEPTH OF DISCHARGE 40
PERCENT OF RECHARGE

TEST TEMPERATURE 25 C
ORBIT PERIOD 24 HRS.

CYCLE PACK CURRENT			CELL VOLTAGES										
NO.	VOLTAGES	10.00	1	2	3	4	5	6	7	8	9	10	
112.	14.40	10.03	1.42	1.45	1.45	1.45	1.44	1.43	1.43	1.44	1.42	1.43	END OF
119.	12.38	9.96	.76	1.47	1.47	1.47	1.48	1.46	1.45	1.46	1.44	1.45	DISCHARGE
		1.00											
112.	18.76	.04	1.57	1.94	1.93	1.94	1.93	1.92	1.85	1.92	1.85	1.85	END OF
119.	19.79	.43	1.53	2.18	2.14	2.00	2.14	1.93	1.99	2.11	1.91	1.83	CHARGE

SEE REMARKS

- N66-27242

Authority for change: ☐ Input ☐ DDC ☐ AEC ☒ NASA ☐ Oral ☐ Written ☐ Other:
Name:

ASHLEY

SLUTTON/CLAY

11 a. Cancel, după "state of:

§ 6.0000, superseded by:

Not to be withdrawn from public sale -

[1.) Destroy doc & related papers

2) Return doc & related papers to:

NY 100-108047

1 d. Change dist/avail code to:

6. Other:

NOT REPRODUCIBLE. NOT AVAILABLE.

1.0 INTRODUCTION

A66-27026 (NASA TX X-56746)

N66-27067 (NASA TM X-56898)

N66-27196 (NASA TT F-8019)

166-27242 (NASA CR-75379)

N66-27936 (NASA CR-75617)

N66-28080 (NASA CR-75754)

N66-26427 (KSEA CR-75693)

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